# ROHM

## DIGITAL TRANSISTOR

#### APPLICATION:

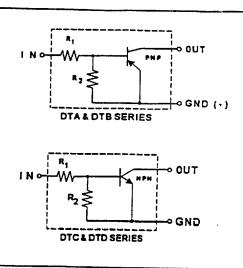
Inverter, Driver & Interface Circuits

#### FEATURES:

- Replaces up to three parts (1 transistor & 2 resistors) with one part
- Available in a variety of surface mount or leaded (thru-hole) packages
- · High packing density requires less board space
- Cost savings due to fewer components to purchase & stock & handle
- Improved reliability due to reduced number of components
- Available in PNP & NPN polarities
- Available in 100 mA & 500 mA devices
- · Decreased parasitic effects
- Double diffused silicon, Epitaxial Planar Transistor with thin film internal bias resistor:

MAXIMUM RATINGS:



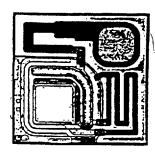


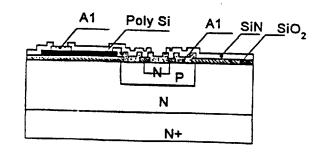
PARAMETER	PN	P	N	PN	T
	DTA	DTB	DTC	DTD	UNITS
Power Supply Voltage (V <sub>cc</sub> )	50	50	50	50	Volts
Collector Current (I <sub>c</sub> )	100	500	100	500	mA
Junction Temperature (Tj)	÷125	+125	+125	+125	•C
Storage Temperature (Tstg)	-55 to +125	-55 to +125	-55 to +125	-55 to +125	••
Power Dissipation (Pd)	Rated by	/ Package - See			mW

### MAXIMUM POWER DISSIPATION BY PACKAGE: Pd (mW)

	SUR	FACE MO	UNT DEV	ICES	THRU	HOLE (L	EADED) D	EVICES	•····
Test Condition	SST (SOT-23)	SMT (SC-59)	UMT	ĒM3	SPT (TO-92S)	ATR	ATV	FTR	FTL
Free Air/PCB Ceramic Substrate	200 350	200 350	200 350	150 250	300	300	300	300	300

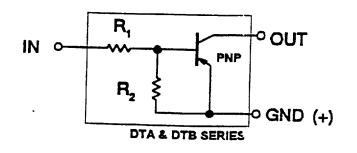
#### DIGITAL TRANSISTOR CONSTRUCTION:

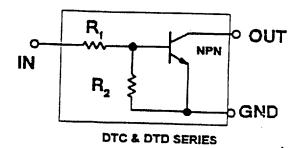




ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

## **Digital Transistor Summary Table**





	Resistor Velues	PNP	PNP	NPN	NPN
R,	R ,	l <sub>e</sub> (Max) = 100 л.д. 2N3906	i <sub>c</sub> (Max) = 600 mA PN2907A/2N4403	l <sub>e</sub> (Max) = 100 mA 2N3904	l <sub>c</sub> (Max) = 500 m/ PN2222A/2N4401
1/K 1/K	1K NONE	-	DTB 113E	-	DTD 113E
1/K	10K	DTA 113T DTA 113Z	DTB 113Z	-	•
10K	10K			DTC 113Z	DTD 113Z
0	10K	DTA 114E DTA 114G	DTB 114E	DTC 114E	DTD 114E
10K	NONE	DTA 114T	DTB 114T	DTC 114G	DTD 114G
10K	4.7K	DTA 114W	0101141	DTC 114T/DTC 314T *	DTD 114T
10K	47K	DTA 114Y/DTA 214Y	-	DTC 114W DTC 114Y	•
100K	100K	DTA 115E			
0	100K	DTA 115G	-	DTC 115E	-
100K	NONE	DTA 115T		DTC 115G	-
100K	10K	DTA 115U	•	DTC 115T	•
.22K	4.7K			DTC 115U	•
2.2K	++	-	DTB 122J	-	DTD 122J
2.2K	2.2K	DTA 123E	DTB 123E	DTC 123E	DTD 4005
2.2K	NONE 47K	-	DTB 123T	DTC 323T -	DTD 123E
2.2K	10K	DTA 123J	-	DTC 123J	DTD 123T
		DTA 123Y	DTB 123Y	DTC 123Y	DTD 123Y
2.7K	1K	DTA 1D3R	-	DTC 1D3R	
22K	22K	DTA 124E	-	DTC 124E	-
0 22K	22K	DTA 124G	.	DTC 124E	•
22K	NONE 47K	DTA 124T	-	DTC 124G	•
	4/K	DTA 124X	-	DTC 124X	•
220K	NONE	DTA 125T	-	DTC 125T	
3.3K	10K	-	DTB 133H		-
4.7K	4.7K	DTA 143E		•	DTD 133H
4.7K	NONE	DTA 143E	DTB 143E DTB 143T	DTC 143E	DTD 143E
4.7K	10K	DTA 143X	010 1431	DTC 143T/DTC 343T •	DTD 143T
4.7K	22K	DTA 143Y		DTC 143X	•
4.7K	47K	DTA 143Z	-	DTC 143Y DTC 143Z	-
47K	47K	DTA 144E			-
0	47K	DTA 144G		DTC 144E	-
47K 47K	NONE	DTA 144T	-	DTC 144G DTC 144T	•
47K	10K	DTA 144V	-	DTC 1441	-
	22K	DTA 144W	•	DTC 144V	-
5.8K 5.8K	6.8K	-		DTC 363E *	-
.01	NONE	-	DTB 163T	DTC 363E •	- DTD 163T

NOTE: See "How to Order" for complete part number - -

ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 EAX (615)641

2022

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#### DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

	Vin(o	η		Vin(o	n)		Vo	(on)			lb		Ic(OF	F)		Vce(S	AT)		Cob	@ F=1	MHz		CUT-O	FF FR	EQ
PART	Max	Voe	S	Min	Voe	k	TYP	Matt	k	1b	Max	Vin	Max	Voc	Vin	Max	lc	b	TYP	Max	Vcb	Je	n	Vce	ic
NUMBER	M	$\infty$	(mA)	M	M	(mA)	M	M	(mA)	(mA)	(mA)	M	(uA)	M	M	M	(mA)	(mA)	(pF)	(pF)	S	(mA)	(MHz)	M	(mA)
DTA113Z	0.3	5	0,1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123Y	0.3	5	0.1	3	0.3	20	0,1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA124X	<u> </u>	5	0.1	2.5	0.3	2	0.1	0.3	10	0.5	0.36	5	10	- 30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143E	<u>C.5</u>	5	0.1	3	0.3	20	0.1	0.3	10	0.5	-1.8	· 5	10	· 30	0	0.3	5	0.25	3	6	· 10	0	250	10 1	5
DTA143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Z	(•.5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144E	(•.5	5	0.1	3	0.3	2	0,1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144V	۰.0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144W	C.8	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA214Y	C.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
	Vin(o	T)		Vin(o	ת)		Vo	(on)			њ		lc(OF	F)		Vce(S	ATI		Cob @		MHz		CUT-O	FF FRI	<del>-0</del>
DADT	11.00	Mag	1-	1.0			70/0	i			1	10-	1	10.1	<u> </u>										

11.10			( wintto	(I)		401	(on)					ROF	<b>~)</b>		YCE(S	SAI)			@/r=1	MHZ		CU1-0	FF FHI	EQ /
Max	Vce	ð	Min	Vce	k	TYP	Max	k	ιb	Max	Vin	Max	Voc	Vin	Max	k	b	TYP	Max	Vcb	le	πI	Vce	k
(2)	3	(mA)	<u></u>	$\infty$	(uA)	8	<u></u>	(mA)	(mA)	(mA)	(M)	(uA)	M	M	8	(mA)	(mA)	(pF)	(pF)	8	(mA)	(MHz)	3	(mA)
0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1	3	6	10	0	250	10	5
0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.5	3	6	10	0			5
0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.5	3	6	10	0			5
0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	1	0.1	3	6	10	0		_	5
0.8	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.33	5	10	30	0	0.3	0.5	0.05	3	6	10	0		-	5
0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.2	3	8	10	0			5
	Max (*) 0.3 0.5 0.8 0.3 0.5 0.8	(·)         (·)           0.3         5           0.5         5           0.8         5           0.3         5           0.5         5           0.6         5           0.7         5           0.8         5           0.8         5           0.8         5	Max         Vce         kc           (')         (M)         (mA)           0.3         5         0.1           0.5         5         0.1           0.8         5         0.1           0.3         5         0.1           0.8         5         0.1           0.5         5         0.1           0.8         5         0.1           0.8         5         0.1	Max         Vce         Ic         Min           (*)         (M)         (mA)         (M)           0.3         5         0.1         3           0.5         5         0.1         3           0.8         5         0.1         3           0.3         5         0.1         3           0.3         5         0.1         3           0.4         5         0.1         3           0.8         5         0.1         3           0.8         5         0.1         3	Kax         Vce         k         Min         Vce           (*)         (M)         (mA)         (M)         (M)           0.3         5         0.1         3         0.3           0.5         5         0.1         3         0.3           0.8         5         0.1         3         0.3           0.3         5         0.1         3         0.3           0.3         5         0.1         3         0.3           0.5         5         0.1         3         0.3           0.5         5         0.1         3         0.3           0.8         5         0.1         3         0.3	Max         Vce         lc         Min         Vce         lc           (')         (M)         (mA)         (M)         (M)         (UA)           0.3         5         0.1         3         0.3         20           0.5         5         0.1         3         0.3         10           0.8         5         0.1         3         0.3         1           0.3         5         0.1         3         0.3         1           0.5         5         0.1         3         0.3         1           0.5         5         0.1         3         0.3         1           0.5         5         0.1         3         0.3         1	Max         Vce         lc         Min         Vce         lc         TYP           (*)         (M)         (mA)         (M)         (M)         (W)         (uA)         (M)           0.3         5         0.1         3         0.3         20         0.1           0.5         5         0.1         3         0.3         10         0.1           0.8         5         0.1         3         0.3         1         0.1           0.3         5         0.1         3         0.3         1         0.1           0.5         5         0.1         3         0.3         1         0.1           0.5         5         0.1         3         0.3         1         0.1           0.5         5         0.1         3         0.3         1         0.1           0.8         5         0.1         3         0.3         1         0.1	Max         Vce         lc         Min         Vce         lc         TYP         Max           (*)         (M)         (mA)         (M)         (V)         (uA)         (M)         (V)           0.3         5         0.1         3         0.3         20         0.1         0.3           0.5         5         0.1         3         0.3         10         0.1         0.3           0.8         5         0.1         3         0.3         2         0.1         0.3           0.3         5         0.1         3         0.3         1         0.1         0.3           0.8         5         0.1         3         0.3         1         0.1         0.3           0.5         5         0.1         3         0.3         1         0.1         0.3           0.5         5         0.1         3         0.3         1         0.1         0.3           0.8         5         0.1         3         0.3         1         0.1         0.3	Max         Vce         lc         Min         Vce         lc         TYP         Max         lc           (')         (M)         (mA)         (M)         (M)         (uA)         (M)         (M)         (mA)           0.3         5         0.1         3         0.3         20         0.1         0.3         10           0.5         5         0.1         3         0.3         10         0.1         0.3         10           0.8         5         0.1         3         0.3         2         0.1         0.3         5           0.3         5         0.1         3         0.3         1         0.1         0.3         5           0.3         5         0.1         3         0.3         1         0.1         0.3         5           0.5         5         0.1         3         0.3         1         0.1         0.3         5           0.8         5         0.1         3         0.3         1         0.1         0.3         5	Max         Vce         k         Min         Vce         k         TYP         Max         k         lb           (')         (Y)         (mA)         (Y)         (Y)         (uA)         (Y)         (Y)         (mA)         (mA	Kax         Vce         k         Min         Vce         k         TYP         Max         ic         lb         Max           (')         (Y)         (mA)         (Y)         (y)         (uA)         (Y)         (mA)         (m	Kax         Voe         Ic         Min         Voe         Ic         TYP         Max         Ic         Ib         Max         Vin           (')         (Y)         (mA)         (Y)         (y)         (uA)         (Y)         (mA)         (mA)         (mA)         (mA)         (mA)         (mA)         (mA)         (mA)         (mA)         (Y)         (Y)         0.3         10         0.5         7.2         5         5         0.1         3         0.3         10         0.1         0.3         10         0.5         7.2         5         5         0.1         3         0.3         10         0.1         0.3         10         0.5         0.88         5         5         0.1         3         0.3         2         0.1         0.3         10         0.5         0.88         5         5         0.3         5         0.25         1.8         5         5         0.3         5         0.25         0.88         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5	Max         Voe         Ic         Min         Voe         Ic         TYP         Max         Ic         Ib         Max         Vin         Max           (')         (')         (mA)         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         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(')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')	Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vac         Vin           (')         (')         (')         (mA)         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         ('A)         (')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')         ('')	Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vec         Vin         Max           (')         (')         (')         (mA)         (')         (')         (')         (')         (')         (')         (')         (')         ('A)         (')         ('mA)         ('mA)         ('mA)         ('mA)         ('M)         ('M)         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (	Max         Vce         k         Min         Vce         k         TYP         Max         k         lb         Max         Vin         Max         Vic         Vin         Max         lc         lb         Max         Vin         Max         lc         Vin         Max         Vin         Max         lc         lb         Max         Vin         Max         lc         lc         lb         Max         Vin         Max         lc         lc         Vin         Max         lc         lc         Vin         Max         lc         lc         Vin         Max         lc         lc         Vin         Max         lc         Vin         Max         lc         lc         Vin         Max         lc         Vin         Max         lc         Vin         Max         lc         Vin         Max         lc         Max         Vin         Max         lc         Vin         Max         lc         Max         Max         Vin         Max         Vin         Max         Vin	Max         Vce         k         Min         Vce         k         TYP         Max         k         lb         Max         Vin         Max         lc         lb         Max         Vin         Max         Ma	Max         Vce         k         Min         Vce         k         TYP         Max         k         l         lb         Max         Vin         Max         lc         lb         TYP           (')         (')         (')         (mA)         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (')         (') <t< td=""><td>Max         Vce         k         Min         Vce         k         TYP         Max         k         lb         Max         Vce         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vin         Max         lc         lb         TYP         Max         lc         lb         TYP         Max         lc         lb         TYP         Max         lc         lb         S         lo         <thlo< th="">         lo         lo         lo<td>Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vic         Vin         Max         lc         lb         TYP         Max         Vcb         Vin         Max         Vcc         Vin         Max         lc         lb         TYP         Max         Vcb           (i)         (M)         (M)         (V)         (uA)         (V)         (mA)         (mA)         (mA)         (V)         (uA)         (V)         (V)</td><td>Max         Vce         k         Min         Vce         k         TYP         Max         k         k         Vn         Max         Vcc         Vn         Max         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k</td><td>Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Hax         Vin         Max         Vce         Vin         Max         Vin</td><td>Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Max         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vce         Vin         Max         Vce</td></thlo<></td></t<>	Max         Vce         k         Min         Vce         k         TYP         Max         k         lb         Max         Vce         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vin         Max         lc         lb         TYP         Max         lc         lb         TYP         Max         lc         lb         TYP         Max         lc         lb         S         lo         lo <thlo< th="">         lo         lo         lo<td>Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vic         Vin         Max         lc         lb         TYP         Max         Vcb         Vin         Max         Vcc         Vin         Max         lc         lb         TYP         Max         Vcb           (i)         (M)         (M)         (V)         (uA)         (V)         (mA)         (mA)         (mA)         (V)         (uA)         (V)         (V)</td><td>Max         Vce         k         Min         Vce         k         TYP         Max         k         k         Vn         Max         Vcc         Vn         Max         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k</td><td>Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Hax         Vin         Max         Vce         Vin         Max         Vin</td><td>Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Max         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vce         Vin         Max         Vce</td></thlo<>	Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vic         Vin         Max         lc         lb         TYP         Max         Vcb         Vin         Max         Vcc         Vin         Max         lc         lb         TYP         Max         Vcb           (i)         (M)         (M)         (V)         (uA)         (V)         (mA)         (mA)         (mA)         (V)         (uA)         (V)         (V)	Max         Vce         k         Min         Vce         k         TYP         Max         k         k         Vn         Max         Vcc         Vn         Max         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k         k	Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Hax         Vin         Max         Vce         Vin         Max         Vin	Max         Vce         lc         Min         Vce         lc         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         Max         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vin         Max         Vce         Vin         Max         lc         lb         TYP         Max         lc         lb         Max         Vce         Vin         Max         Vce

• •	Vin(o	T)		Vin(o	n)		Vo	(on)			њ		kc(OF	F)		Vce(9	AT)		Cob (	© F=1	MHz		CUT-O	FF FR	FO
PART	Max	Vce	kc	Min	Voe	kc	TYP	Max	k	lb	Max	Vin	Manx	Voc	Vin	Max	İc	1b	TYP	Max	Vcb	La l	n l	Vce	k
NUMBER	(M)	3	(mA)	3	S	(uA)	3	3	(mA)	(mA)	(mA)	8	(uA)	8	8	8	(mA)	(mA)	(pF)	(pF)		(mA)	(MHz)	ŝ	(mA)
DTA114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTA124G	0.5	· 5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5	3	6	10	-	250	10	5
DTA144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	
DTA115G	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3		0.25							
DTB114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	50	2.5		-	10 10	0	250 200	10 10	<u> </u>

## ELECTRICAL CHARACTERISTICS: 500 mA Series

	Vin(o	fť)		Vin(or	ר)		Vo	(on)			Ш		Ic(OF	F)		Voe(S	AT		Cob	@ F=1	MHy		CUT-O	FF FR	FO
PART	Max	Vœ	k	Min	Vce	đ	TYP	Max	ĸ	Ъ	Max	Vin	Max	Voc	Vin	Max	k	Шb	TYP	Max	Vcb	Je	сс С	Vce	k
NUMBER	3	S	(mA)	$\infty$	ŝ	(uA)	3	8	(mA)	(mA)	(mA)	M	(04)	m	8	S I	(mA)			(pF)	s S	(mA)	(MHz)	ŝ	(mA)
DTB113E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	25	7.2	5	10	30	0	0.3		0.25		6	10		200	10	50
DT8113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	72	5	10	30	0	0.3	_	0.25	3		10	0	200		
DTB114E	0.5	5	0.1	3	0.3	10	0.1	0.3	50	2.5	0.88	5	10	30	ō	0.3		0.25	3	0				10	50
OTB123E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	3.8	5	10	30	0	0.3	-	0.25			10	0	200	10	50
DTB143E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	ō	0.3			3	0	10	0	200	10	50
DTB123Y	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	3.6	5	10	30		-	3	0.25	3	6	10	0	200	10	50
DTB122J	0.3	5	0.1	2	0.3	30	0.1	0.3	50	2.5	4.5	5			0	0.3	2	0.25	3	6	10	0	200	10	50
DTB133H	0.3	5	0.1	2	0.3	20	-	0.3	50				10	30	0	0.3		0.25	3	6	10	0	200	10	50
			0.1		0.5	20	0.1	0.3		2.5	24	3	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50

	Vin(o	1)		Vin(o	n)		Vo	(on)			lb		Ic(OF	Ð		Voe(S	AT		Cob	a		-	0170		
PART	Max	Vce	S.	Min	Voe	kc	TYP	Max	k	lb	Max	Vin	Max	Voc	Vin	Max	kc	Шь	TYP	- ·	_				1.
NUMBER	M	M	(mA)	M	$\infty$	(uA)	m	6	(mA)	(mA)	(mA)	M	(uA)	M			(mA)		(oF)	Max	Vcb (X)	6	11	Vce	IC IC
DTB123T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	6	0.3	<u>,,</u>	0.25		(pr)		(mA)		<u>M</u>	(mA)
DTB143T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.68	5	10	30	0	0.3	~	0.25		0	10	0	200	10	5
DTB163T	8.0	5	<b>0.1</b>	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	<del>ا م</del>	0.3	_	_	<u> </u>	-	10	0	200	10	5
DTB114T	Õ.J	5	0.1	1.4	0.3		<u> </u>	0.3	- And the second		ô.ôō	-	1.4	F.0		-		0,25	~ ~	9	10	0	200	10	5
					0.0		0.1	0.9	3	0.23	0.00	<u> </u>	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5

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### DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

		RESISTO	RVALUE		R2/R	1	kc	INPU	TVOLT	hFE			lcbo		loso			1	1
PART	TYP	R1	R2	Min	Тур	Max	Max	Min	Matt	Min	Voe	, jc	Max	Vab	Max	Voe	PART	DIE	EQUIVALENT
NUMBER		(K)	<u>(K)</u>				(mA)	M	M		M I	(mA)	(uA)	M	(uA)	Lm	MARK	TYPE	CIRCUIT
DTA113Z	PNP	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E11/111	A776	
DTA114E	PNP	10.0	10.0	0.8	1	12	100	-40	10	30	5	5	0.5	50	0.5	50	14	A766	1
DTA114W	PNP	10.0	4.7	0.37	0.47	0.57	100	-30	10	24	5	10	0.5	50	0.5	50	74	A778	1
DTA114Y	PNP	10.0	47.0	3.7	4.7	5.7	100	-40	8	68	5	5	0.5	50	0.5	50	54	A762	
DTA115E *	PNP	100.0	100.0	0.8	1	12	100	-40	10	82	5	5	0.5	50	0.5	50	19	B861	1
DTA115U	PNP	100.0	10.0	0.06	0.1	0.12	100	49	10	27	5	5	0.5	50	0.5	50	E79/179	8865	
DTA123E	PNP	22	2.2	0.8	1	1.2	100	-12	10	20	5	20	0.5	50	0.5	50	12	A733	1
DTA123J	PNP	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E32/132	A774	
DTA123Y	PNP	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	52	A777	NI
DTA124E	PNP	32.0	22.0	0.8	1	1.2	100	-40	10	56	5	5	0.5	50	0.5	50	15	A761	(Base) (Conserve)
DTA124X	PNP	220	- 47.0	1.7	21	2.6	100	-40	10	68	5	5	0.5	50	0.5	5U	35	A770	P2
DTA143E	PNP	4.7	4.7	0.8	1	1.2	100	-30	10	20	· 5	10	0,5	50	0.5	50	· 13	A768	GE (+)
DTA143X	PNP	4.7	10.0	1.7	2.1	2.6	100	-20	7	30	5	10	0.5	50	0.5	50	33	A769	(Emain )
DTA143Y	PNP	4.7	22.0	3.7	4.7	5.7	100	-30	6	56	5	5	0.5	50	0.5	52		A785	
DTA143Z	PNP	4.7	47.0	8	10	12	100	-30	· 5	80	5	10	0.5	50	0.5	50	E13/113	A775	
DTA144E	PNP	-7.0	47.0	8.0	1	1.2	100	49	15	68	5	5	0.5	50	0.5	5:	16	A782	
DTA144V	PNP	~7.0	10.0	0.17	0.21	0.25	100			33	5	5	0.5	50	0.5	52	E56/158		
DTA144W	PNP	<7.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50		A767	
DTA214Y	PNP	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50		A762	
DTA1D3R	PNP	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50	0.5	50	- Contraction of the local diversion of the l	A784	

		RESISTO	R VALUE	Vcbo	Vceo	Vebo	kc		hFE				kcbo	_	lebo	— 7		l	· · · · · · · · · · · · · · · · · · ·
PART	TYP	<b>F1</b>	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	k	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	M	<u>_</u> M	M	(mA)				3	(mA)	(uA)	8	(uA)		MARK	TYPE	
DTA143T	PNP	4.7	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	-	93	-	
DTA114T	PNP	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	94	A765	
DTA124T	PNP	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		A771	<b>.</b> .
DTA144T	PNP	47.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	Ā	And and a state of the local division of the local division of the local division of the local division of the	A772	Rent particular Column
DTA115T	PNP	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	_	0.5		and the second second		l l
DTA125T	PNP	200.0	NONE	50	50	5	100	100		600	5		0.5	50				8864	
DTA113T	PNP	1.0	NONE	50	50	- 5	100	100	250	600				-	0.5	-		B863	
							100	100	2.50		3		0.5	50	0.5	4	91	A786	

		RESISTO	R VALUE	Vcbo	Vceo	Vebo	ic		hFE				Icbo		lebo	T			
PART	TYP	Ri	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	k	Max	Vcb		Ven	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	M	3	3	(mA)			1	3	(mA)	(uA)	3	(uA)		MARK	TYPE	CIRCUIT
DTA114G	PNP	0	10.0	50	50	5	100	30	-	•	5	5	0.5	50	580	4		A780	eincoll
DTA124G	PNP	0	22.0	50	50	5	100	56	•	1.	5	5	0.5	50	260		the second se	A781	
DTA144G	PNP	0	47.0	50	50	5	100	68		1.	5	5	0.5	50	130				
DTA115G	PNP	0	100.0	50	50	5	100	82		$\mathbf{t}$	5	5	0.5	-				A782	RT .
OTB114G	PNP	0	10.0	50	50		500	56			5	100	0.5	-	58 0.5	-		B862 B726	

## ELECTRICAL CHARACTERISTICS: 500 mA Series

		RESISTO	R VALUE		R2/R	1	k	INPU	TVOLT	hFE			kcbo	<u> </u>	loso			<b>1</b>	
PART	TYP		R2	Min	Тур	Macx	Max	Min	Mate	Min	Vce	k	Max			Vce	PART	DIE	EQUIVALENT
NUMBER		(K.)	(K)				(mA)	M	<u></u>		m	(mA)	(uA)	m	(uA)	3	MARK	TYPE	
DTB113E	PNP	1.0	1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5	50	0.5	50		8717	Cincoli
DTB113Z	PNP	1,0	10.0	8	10	12	500	-10	5	56	5	50	0.5	50	0.5	50	G11	B718	1
DT8114E	PNP	10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	50			
DTB123E	PNP	2.2	2.2	0.8	1	1.2	500	-12	10	39	5	50	0.5	50	0.5	50	F14		
DTB143E	PNP	4.7	4.7	0.8	1	1.2	500	-30	10	47	5	50	0.5		_	_	and the owner of the owner, where the owner	8712	10
DTB123Y	PNP	2.2	10.0	3.6	4.5	5.5	500	-12	5	56				_	0.5	50	And in case of the local division of the loc	8713	
DTB122J	PNP	0.22				25.6						50	0.5	50	0.5	50	F52	B715	(imm)
OTB133H	PNP	3.3				-	500	-5	2	47	5	50	0.5	50	0.5	50	<b>G3C</b>	8725	1
		0.0	10.0	2.4	3	3.7	500	-20	6	56	5	50	0.5	50	0.5	50	G98	8719	

		RESISTO	R VALUE	Vcbo	Voeo	Vebo	lic	1	hFE				icbo		lebo			<u></u>	T
PART	TYP	R1	Pf2	Max		Max	Max	Min	Тур	Map	Voe	kc	Marx	Veb					]
NUMBER		(K)	(K)	8	3	M	(mA)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		m	(mA)					PART	DIE	EQUIVALENT
DTB123T	PNP	2.2	NONE	50	50	r <del>í</del> si	500	100	250	600		50	0.5		(uA)	3	MARK	TYPE	CIRCUIT
DTB143T	PNP	4.7	NONE	50	50	5	500	100		600		50		-	0.5	4		8723	Al Comment
DTB163T	PNP	6.8	NONE	50	50	5	500	100					0.5	_	0.5	4	F03	B720	
DTB114T	PNP	10,0	NONE				_			600	2	50	0,5	50	0,5	4	E97	B721	
			NVNE	50	50	3	500	100	250	600	5	50	Ŏ.5	50	0.5	4	E94	8722	Contraction of Anther

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### DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

	Vin (o	m)		Vin(c	n)		Vo	(on)			b		Ic(OF	Ŧ)		Voe(	BAT)		Cob	@ F='	1MHz		CUT-O	FF FR	EQ
PART	Max	Vce	S IC	Min	Voe	b	Түр	Max	ko	lb	Max	Vin	Mex	Voo	Vin	Mex	10	10	1 түр	Max	Vcb	le	п	Vce	k
NUMBER	M	M	(mA)	0	M	(mA)	S	M	(mA)	(mA)	(mA)	0	(uA)	8	3	M	(mA)	(mA)	(pF)	(pF)	M	(mA)	(MHZ)	M	(mA)
DTC113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114Y	0.3	5	0.1	1.4	0.3	1	0,1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	_ 30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123Y	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	. 6	10	0	250	10	5
DTC124X	0.4	5	0.1	2.5	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143E	0.5	5	0.1	3	0.3	20	·0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Z	0.5	5	0,1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144E	0.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144V	1.0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	-	0.25	3	6	10	0	250	10	5
DTC144W	0.8	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	_	0.25	3	6	10	-0	250	10	5
DTC214Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	_	0.25	3	6	10	-0	250	10	5
DTC1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	_	0.25	3	6	10	-01	250	10	- 5
									·······						_			1					2.50 ]		<u> </u>
	Vin(ol	1)		Vin(o	n)		Vo(	on)			łb		Ic(OFI	7)		Voe(S	ATD	1	Cob (	@ F=1	MH7	- 1	CUT-OF	FEP	
PART	Max	Vce	b	Min	Vce	ic	TYP	Max	k	Ъ	Max	Vin	Max	Voc	Vin	Max	la l	ъ	TYP	Max	Vcb	- la	-	Vce	-u k
NUMBER	M	<u>_</u> M	(mA)	M	_ <u>M</u>	(uA)	M	8	(mA)	(mA)	(mA)	(%)	(uA)	m	S S	M		(mA)	(0F)	(pF)		(mA)	MHZ	8	(mA)
DTC143T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	72	5	10	30	- 6	0.3		0.25	3	6	10		250	10	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>
OTC114T	0.5	5	01	3	0.2	10	01	02	10	06	A		10	20	-									10	

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NUMBER	M	M	(mA)	$\infty$	<u>_</u>	(uA)	8	8	(mA)	(mA)	(mA)	S	(uA)	6	<b>M</b>	l m	(mA)	(mA)	(pF)	(pF)	M	(mA)	MHZ	ŝ	(mA)
DTC143T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	72	5	10	30	0	0.3	5	0.25	3	6	10	<u>,,</u>	250	10	
DTC114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1			10		250		
DTC124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.5			10		250	10	
DTC144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	÷	0.88	5	10	30	0	0.3		0.5		0	10		the second second	10	3
DTC115T	0.5	5	0.1	3	0.3	1	0.1	0.3			0.15	5	10	30	0	0.3		0.1		- 0	_		250	10	3
DTC125T	0.8	5	0.1	3	0.3	1	0.1	0.3			0.33	5	10	30	-	0.3	0.5			0	10	0	250	10	5
DTC113T	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8		10	30			400	0.05	3	0	10	0	250	10	5
					0.0		0.1	0.5	10	0.5	3.8				0	0.3	3	0.2	3	6	10	0	250	10	5
· · · ·	Vinio	m		Vinlo			Ma	(00)			11		LWOF			14. 44			-						

	Antio	1)	_	VIN(O	n)		Vo	(on)			j 1b		jic(OF	F)		Vce(S	Voe(SAT)		Cob (	@ F=1	MHz		CUT-O	FE ER	FO
PART	Max	Vce	kc	Min	Vce	S.	TYP	Max	S.	Ð	Max	Vin	Max	Voc	Vin	Max	lo	b	TYP	Max	Vcb	le	π	Vce	
NUMBER	(M)	(M)	(mA)	(M)	S	(uA)	M	M	(mA)	(mA)	(mA)	(V)	(uA)	M	8	M	(mA)	(mA)	(oF)	(pF)	8	(mA)	(MHz)	ŝ	(mA)
DTC114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	(1104)
DTC124G	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5	3		10	0	250		
DTC144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5				0		10	
DTC115G	0.3	5	0.1	1,4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	-	_			10		250	10	
DTD114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0			0.25	3	0	10	0	250	10	5
										1. 0.0			10	30	0	0.3	50	2.5	3	6	10	0	200	10	5

#### ELECTRICAL CHARACTERISTICS: 500 mA Series

	Vin(o	T)		Vin(or	1)		Vo	(on)			lb		Ic(OF	۶)		Vce(S	AD	······	Cob	a					
PART	Max	Vce	lc	Min	Vca	lc l	TYP	Max	kc	Ш	Max	Vin	Max	Voc	Vin	1. 1				Ē.			CUT-O	FF FR	EQ
NUMBER	M	3	(mA)	m	3	(uA)	Ś	8	(mA)				(44)	ŝ	N N	Max	iC (mA)	lb (mA)	TYP	Max	Vcb	le i	n	Vce	1C
DTD113E	0.5	5	0.1	31	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	- 6	0.3		_	(pF)	(pF)	M	(mA)		(M)	(mA)
DTD113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5				_			-	0.25	3	6	10	0	200	10	50
DTD114E	0.5	5	0.1		0.3						7.2	3	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD123E						10	0.1	0.3	50	2.5	0.68	5	10	_ 30	0	0.3	5	0.25	3	6	10	0	200	10	50
	0.5	5	0.1	3	0.3	_20	0.1	0.3	50	25	3.8	5	10	30	0	0.3	5	0.25	3		10	0	200	-	
DTD143E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	0	0.3		0.25				-	The second se	10	50
DTD123Y	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	3.6	5	10	30					3	6	10	0	200	10	50
DTD122J	0.3	5	0.1		0.3	30			_					_	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD133H	0.3		_		-		0.1	0.3	50	2.5	4.5	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
UIDISAN	0.3	5	0.1	2	0.3	_ 20	0.1	0.3	50	2.5	2.4	5	10	30	0	0.3	5	0.25	3		10	0		-	
																يستشيعها				0	10		200	10	50

	Vin(o	<u>ד</u>		Vin(o	n)	_	٧o	(ino)			Шb		Ic(OF	Ð		Voe(SAT)									
PART	Max	Vce	ic	Min	Vce	kc	ТҮР	Max	in the	Ib	Mex	Vin	Max	Voc	Vin		<u> </u>		Cob		MHz		CUT-0	FF FR	IEQ
NUMBER	8	m	(mA)	M	ŝ	(44)	~	~	(mA)	(mA)		-	(UA)	V0C	<b>vn</b>	Max	hC.	Ь	TYP	Max	Vcb	le l	n l	Vce	k
DTD123T	0.3	5	0.1	3	0.3	20	0.1	0.3	10			<u> </u>		_17	(7)	LM.	(mA)	(mA)	(pF)	(pF)	3	(mA)	(MHz)	S I	(mA)
DTD143T	0.5	5	0.1			20	0.1			0.5	1.2	3	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
					0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	
DTD163T	Q,8	<u> </u>	0,1	3	Q.3	2	0,1	0.3	5	0,25	1.8	5	10	30	0	0.3	5	0.25			-			-	
DTD114T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	¢.	0.25	0.88			A 7424-442			-	in the second	3		10	0	200	10	5
						نـــــا		0.0		0.20	0.00	3	10	_ 30	0	0.3	5	0.25	3	6	10	0	200	10	5

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## INGERI

#### DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

		RESISTO	RVALUE		R2/R	1	kc	INPU	TVOLT	hFE			kcbo		lceo			1	
PART	TYP	R1	R2	Min	Тур	Max	Max	Min	Matoc	Min	Voe	5	Max	Vab	Max	Voe	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)				(mA)	M.	M		3	(mA)	(uA)	M	(uA)	3	MARK	TYPE	CIRCUIT
DTC113Z	NPN	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E12/121	C776	
DTC114E	NPN	10.0	10.0	0.8	1	1.2	100	-40	10	30	5	5	0.5	50	0.5	50	24	C766	
DTC114W	NPN	10.0	4.7	0.37	0.47	0.57	100	-30	10	24	5	10	0.5	50	0.5	50	84	C778	
DTC114Y	NPN	10.0	47.0	3.7	4.7	5.7	100	4	8	68	5	5	0.5	50	0.5	50	64	C762	
DTC115E *	NPN	100.0	100.0	0.8	1	1.2	100	-40	10	82	5	5	0.5	50	0.5	50	29	D861	
DTC115U	NPN	100.0	10.0	0.08	0.1	0.12	100	-40	10	27	5	5	0.5	50	0.5	50	E89/189	D665	
DTC123E	NPN	22	2.2	0.8	1	12	100	-12	10	20	5	20	0.5	50	0.5	50	22	C733	
DTC123J	NPN	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E42/142	C774	
DTC123Y	NPN	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	62	C777	Ri (Culture)
DTC124E	NPN	22.0	22.0	0.8	1	1.2	100	-40	10	56	5	5	0.5	50	0.5	50	25	C761	(Base) R2 S
DTC124X	NPN	22.0	47.0	1.7	21	2.6	100	-40	10	68	5	5	0.5	50	0.5	50	45	C770	
DTC143E	NPN	4.7	4.7	0.8	1	1.2	100	-30	10	20	5	10	0.5	50	0.5	50	23	C768	040 (تستيت ) (تستيت )
DTC143X	NPN	4.7	10.0	1.7	2.1	26	100	-20	7	30	5	10	0.5	50	0.5	50	43	C769	
DTC143Y	NPN	4.7	22.0	3.7	4.7	5.7	100	-30	9	56	5	5	0.5	50	0.5	50	63	C785	
DTC143Z	NPN	4.7	47.0	8	10	12	100	-30	5	80	5	10	0.5	50	0.5	50	E23/123	C775	
DTC144E	NPN	47.0	47.0	0.8	1	1.2	100	-40	15	68	5	5	0.5	50	0.5	50	26	C782	
DTC144V	NPN	47.0	10.0	0.17	0.21	0.26	100			33	5	5	0.5	50	0.5	50	E66/166	C774	
DTC144W	NPN	47.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50	86	C757	
DTC214Y	NPN	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50		C762	
DTC1D3R	NPN	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50	0.5	50	K4B	C784	

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		RESISTO	R VALUE	Vcbo	Vceo	Vebo	ic		hFE				Icbo		lebo				
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Man	Vce	k	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	M	S	6	(mA)				8	(mA)	(uA)	M	(uA)	M	MARK	TYPE	CIRCUIT
DTC143T	NPN	4.7	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	3	C764	
DTC114T	NPN	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	4	C765	
DTC124T	NPN	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		C771	Ri Colum
DTC144T	NPN	47.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		C772	
DTC115T	NPN	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	_	D664	
DTC125T	NPN	200.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5		Sector Se	D863	
DTC113T	NPN	1.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5			C786	

••		RESISTO	R VALUE	Vcbo	Voeo	Vebo	k		hFE				Icbo		lebo	1			
PART	ТҮР	R1	R2	Max	Mator	Max	Max	Min	Тур	Max	Vce	lc	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	M	3	M	(mA)				ŝ	(mA)	(uA)	m	(uA)	M	MARK	TYPE	CIRCUIT
DTC114G	NPN	0	10.0	50	50	5	100	30	-	•	5	5	0.5	50	580	4	124	C780	
DTC124G	NPN	0	22.0	50	50	5	100	56		- 1	5	5	0.5	50	260	4		C781	Data company
DTC144G	NPN	0	47.0	50	50	5	100	68			5	5	0.5	50	130	À	The second s	C782	RZ
DTC115G	NPN	0	100.0	50	50	5	100	82			5	5	0.5	50	58				NE C
DTD114G	NPN	0	10.0	50	50	5	500	56	•		5	100	0.5	50	0.5		-	D862	Land and the second sec

#### ELECTRICAL CHARACTERISTICS: 500 mA Series

		RESISTO	RVALUE		R2/R	1	kc	INPU	T VOLT	hFE		-	lcbo		loso			<u> </u>	
PART	TYP	R1	R2	Min	Тур	Max	Max	Min	Max	Min	Vce	k	Max	Vcb		Voe	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)				(mA)	M	ŝ		6	(mA)	(uA)	3	(uA)		MARK	TYPE	
<b></b>	NPN	1.0	1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5	50	0.5			D717	Ciricon
DTD113Z	NPN	1.0	10.0	8	10	12	500	-10	5	56	5	50	0.5	50	0.5	50		D718	
DTD114E	NPN	10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	_		D714	[ ]
DTD123E	NPN	2.2	22	0.6	1	1.2	500	-12	10	39	5	50	0.5	50	0.5		and the second se	D712	
DTD143E	NPN	4.7	4.7	0.8	1	1.2	500	-30	10	47	5	50	0.5	_	0.5		the second s	D712	(Base) (Creation)
DTD123Y	NPN	2.2	10.0	3.6	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50		D715	
DTD122J	NPN	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50	0.5	50	0.5	50		D725	(Latter)
DTD133H	NPN	3.3	10.0	24	3	3.7	500	-20	6	56	5	50	0.5		0.5		and the second	D719	

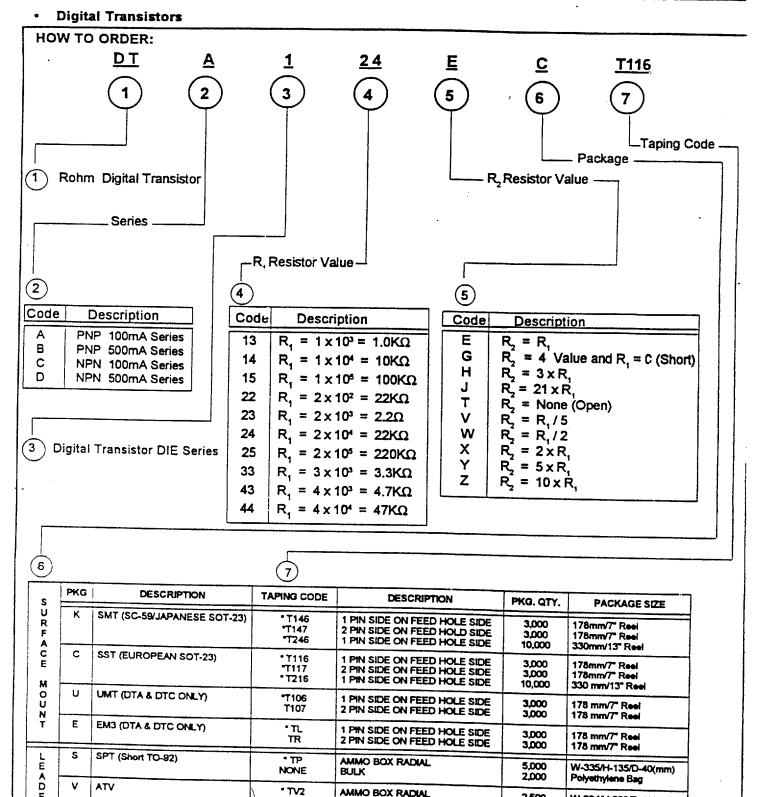
		RESISTO	R VALUE	Vcbo	Voec	Vebo	\ Ic		hFE				icbo		lebo	- 1		T	·····
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Typ	Max	Voe	k	Mate	Vcb		[Varial	PART	DIE	FOURAL ENG
NUMBER		(K)	(K)	8	3	M	(mA)				m	(mA)	(uA)		(uA)		MARK	TYPE	EQUIVALENT
DTD123T	NPN	2.2	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5			0723	CIRCUIT
DTD143T	NPN	4.7	NONE	50	50	5	500	100	250	600	5	50	0.5		0.5			D720	RI Calenter
DTD163T	NPN	6,8	NONE	50	50	5	500	100	-	600	_	50	0.5	_			the second se		ן ז
OTD114T	NPN	10.0	NÔNE	50	50		-	100.00		annua en	100.000	120.030.000	COLUMN TWO IS		0,5		<b>E07</b>	D721	
		10.0	_ HONE		- 30		500	100	250	600	2	50	0.5	50	0.5	4	E04	0722	

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## **144**



AMMO BOX RADIAL

AMMO BOX RADIAL

AMMO BOX RADIAL

ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

BULK

TUBE

BULK

TUBE

2,500

2.500

2.500

2,500

2.000

8.000

2,000

8,000

W-334/H-280/D-41(mm)

W-334/H-280/D-41(mm)

W-334/H-280/D-41(mm)

W-334/H-280/D-41(mm)

L-565/W-4.2/H-11.5(mm)

L-565/W-4.2/H-12.6(mm)

Standard Taping Codes

Polyethylene Bag

Polyethylene Bag

ED

D

EV

1

С

Ε

S

L

-

FTL

-ATR

Scontinuer

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Note: SOT-23, SC-59 and SPT packages are standard products.

TV3

TL2

ТLЭ

NONE

C1

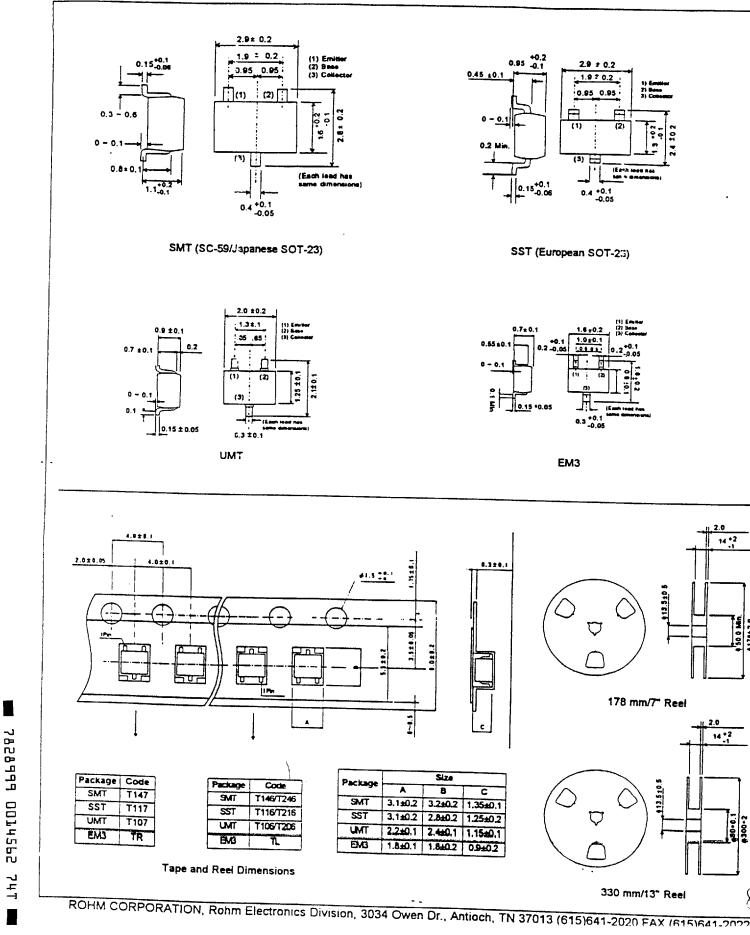
NONE

C2

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## REFI

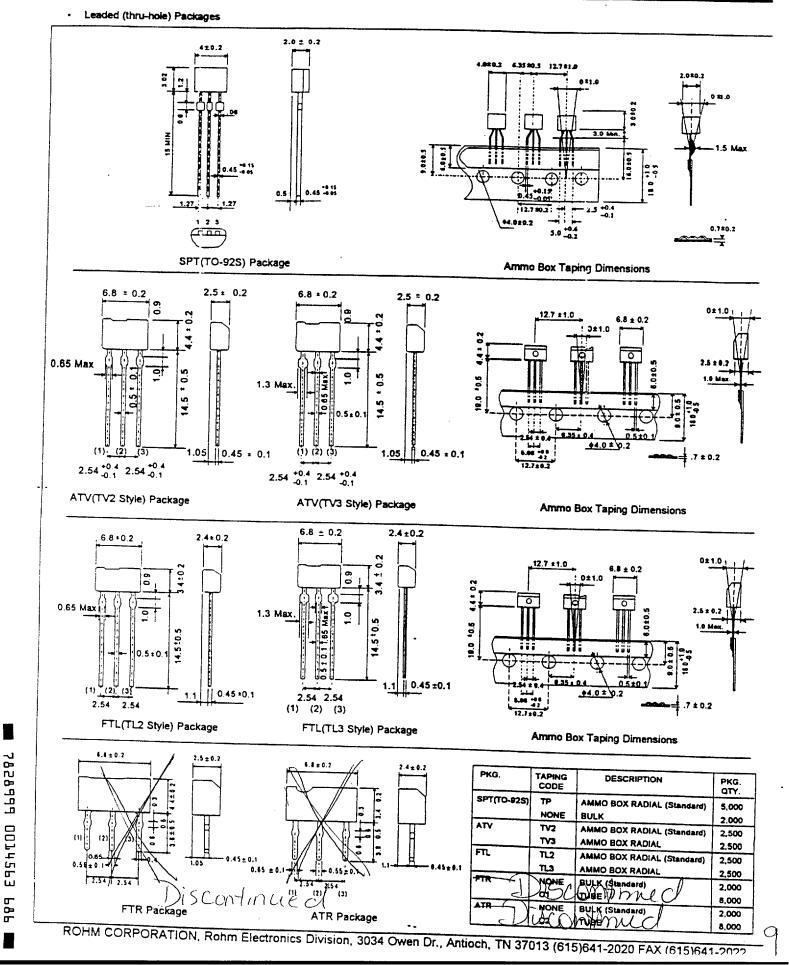
Surface Mount Packages: Unit (mm)



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