

## 2N 5368 through 2N 5375

COMPLEMENTARY SILICON GENERAL PURPOSE AMPLIFIERS AND SWITCHES

THE ABOVE TYPES ARE SILICON PLANAR EPITAXIAL TRANSISTORS FOR GENERAL PURPOSE AMPLIFIERS AND MEDIUM SPEED SWITCHING APPLICATIONS. CAS 2N5368(NPN)

ABSOLUTE MAXIMUM RATINGS		2N5369(NPN) 2N5370(NPN)	2N5373(PNP) 2N5374(PNP)	2N5371(NPN) 2N5375(PNP)
Collector-Base Voltage	VCBO	60 <b>v</b>	60 <b>v</b>	40V
Collector-Emitter Voltage	VCEO	30 <b>v</b>	30 <b>V</b>	30 <b>V</b>
Emitter-Base Voltage	VEBO	5▼	57	5 <b>v</b>
Collector Current	IC	500mA	500mA	500mA
Total Power Dissipation ( $^{T}A \leq 25^{\circ}C$ )	$P_{tot}$	derate	500mW ** 4mW/°C above	25 <b>°C</b>
Operating Junction & Storage Temperature	Tj, Ts	stg	-55 to 150°C	1

\*\* 360mW in JEDEC registration.

## ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

EDECTITORE CHARACTERIES ( A -) C							
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDI	PIONS
Collector-Base Breakdown Voltage	BVCBO	t			v	IC=0.01mA	IE=0
Collector-Emitter Breakdown Voltage	LVCEO *	Note	1		V	IC=10mA	IB=0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	Ļ			v	IE=0.01mÅ	IC=0
Collector Cutoff Current 2N5368,69,70 2N5372,73,74 2N5371,75	ICBO			50 50 50	nA nA nA	V <sub>CB</sub> =40V I	g=0 g=0 g=0
Emitter Cutoff Current	I <sub>EBO</sub>			50	nA	VEB=3V I	<b>C=</b> 0
Collector-Emitter Saturation Voltage	VCE(sat)	¥ <sup>:≂</sup>	0.18	0.3	v	IC=150mA	IB=15mA
Base-Emitter Saturation Voltage	$v_{\rm BE(sat)}$	l i	0.84	1.3	v	I <sub>C</sub> =150mA	IB=15mA
Base-Emitter Voltage	V <sub>BE</sub> *		0.8	1.2	v	IC=150mA	VCE=10V
Current Gain-Bandwidth Product 2N5368 thru' 2N5371 2N5372 thru' 2N5375	fT	250 150	370 270	•. •	MHz MHz	· · · · · · · · · · · · · · · · · · ·	CE=10V CE=10V
Collector-Base Capacitance 2N5368 thru! 2N5371 2N5372 thru! 2N5375	СсЪ		- 	8 10	pF pF	VCB=10V I f=1MHz	<b>E=</b> 0

Note 1 : Equal to the values of absolute maximum ratings. \* Pulse Test : Pulse Width=0.3mS, Duty Cycle=1% For p-n-p devices, voltage and current values are negative

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CASE TO-92F

2N5372(PNP)

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