



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low Saturation voltage: V_{CE(sat)}=0.5V(max.)(I_C=1.0A)
- Small flat package
- P_C=1.0 to 2.0W(mounted on ceramic substrate)
- High Speed Switching Time : t_{stg} =1.0μs(typ.)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{CBO}	Collector-Base Voltage	-50 \	
V_{EBO}	Emitter-Base Voltage	-5.0	V
Ic	Collector Current	-2.0	Α
I _B	Base Current	-0.4	Α
Pc	Collector power dissipation	0.5 1.0*	W
T_J	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

^{*} Mounted on ceramic substrate (250mm² x 0.8t)

Electrical Characteristics @ 25° Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARA	OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0)	-50			Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =50Vdc,I _E =0)			-0.1	uAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)		-	-0.1	uAdc
ON CHARACTERISTIC					

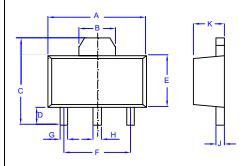
h _{FE(1)}	DC Current Gain (I _C =0.5Adc, V _{CE} =2.0Vdc)	70		240	
h _{FE(2)}	DC Current Gain * (I _C =2.0Adc, V _{CE} =2.0Vdc)	20			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =1.0Adc, I _B =0.05Adc)			-0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =1.0Adc,I _B =0.05Adc)			-1.2	Vdc
f _T	Transition Frequency (V _{CE} =2.0Vdc, I _C =0.5Adc)	100	120		MHz
C _{ob}	Collector output capacitance (V _{CB} =10Vdc, f=1.0MHz)		40		pF

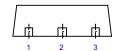
CLASSIFICATION OF HEED

CLASSIFICATION OF HERD				
Rank	0	Υ		
Range	70-140	120-240		
Marking	NO	NY		

PNP Silicon Epitaxial Transistors

SOT-89





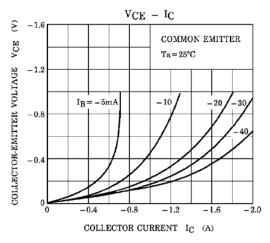
- 1. Base
- 2. Collector
- 3. Emitter

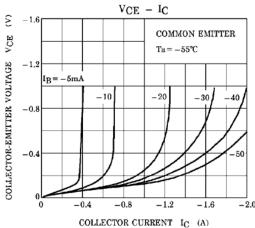
DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
Α	.173	.181	4.39	4.60	
В	.063	.071	1.60	1.80	
С	.154	.165	3.91	4.19	
D	.031	.039	0.80	1.00	
Ш	.092	.100	2.34	2.54	
F	.118		3.00		TYP
G	.013	.019	0.33	0.48	
Τ	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

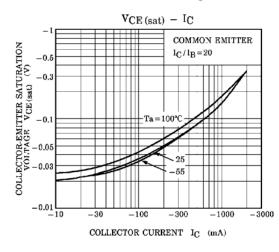


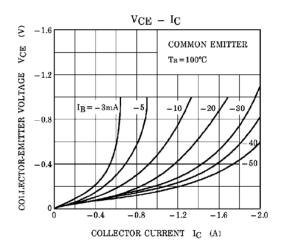
Typical Characteristic

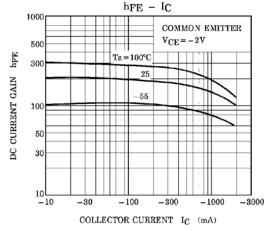
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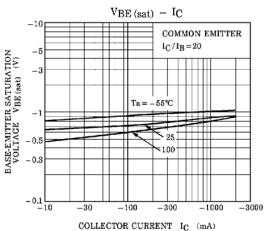








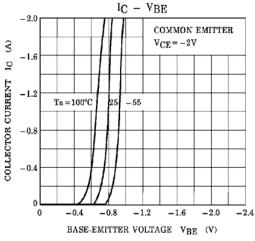


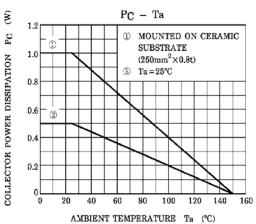


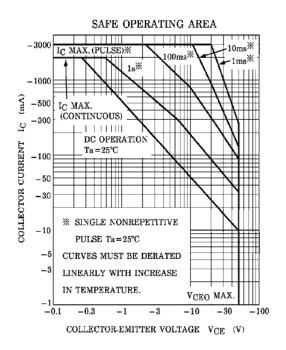


Typical Characteristics

2SA1213









Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 1Kpcs/Reel

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