

Features

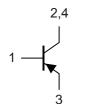
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
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- Thermal Resistance: 250°C/W Junction to Ambient

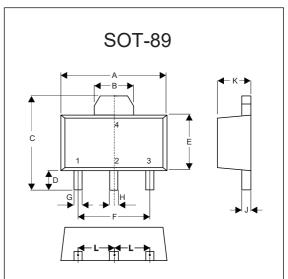
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-45	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I _C	-1	Α
Base Current	I _B	-100	mA
Peak Base Current	I _{BM}	-200	mA
Power Dissipation	P _D	500	mW

Internal Structure



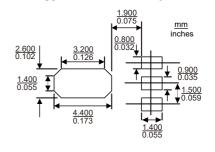
1.BASE 2,4.COLLECTOR 3.EMITTER

PNP Plastic-Encapsulate Transistors



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.169	0.185	4.30	4.70	
В	0.061		1.55		TYP.
С	0.154	0.171	3.91	4.35	
D	0.031	0.047	0.80	1.20	
E	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
Н	0.015	0.021	0.38	0.53	
J	0.014	0.017	0.35	0.44	
K	0.055	0.063	1.40	1.60	
L	0.059		1.50		TYP.

Suggested Solder Pad Layout





Electrical Characteristics @ T_A=25°C Unless Otherwise Specified

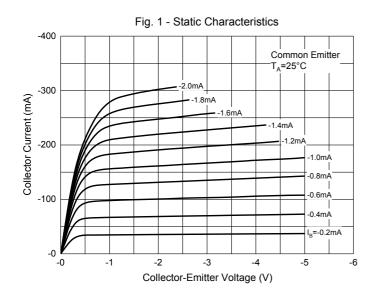
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-45			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-45			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-10\mu A, I_C=0$
Collector-Base Cutoff Current	I _{CBO}			-0.1	μΑ	V _{CB} =-30V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-5V, I_C =0
	h _{FE(1)}	63		250		V _{CE} =-2V, I _C =-150mA
DC Current Gain	h _{FE(2)}	63				V_{CE} =-2V, I_{C} =-5mA
	h _{FE(3)}	40				V_{CE} =-2V, I_{C} =-500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-500mA, I _B =-50mA
Base-Emitter Voltage	V _{BE(on)}			-1.0	V	I _C =-500mA, V _{CE} =-2V
Transition Frequency	f _T	50			MHz	V _{CE} =-5V, I _C =-10mA,f=100MHz

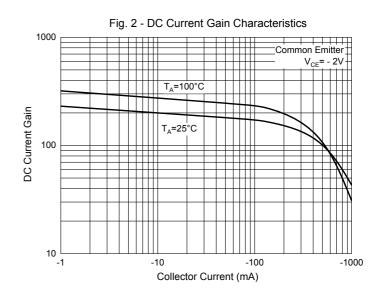
Classification of h_{FE(1)}

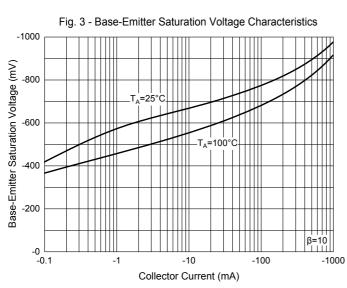
Rank	BCX51	BCX51-10	BCX51-16
Range	63~250	63~160	100~250
Marking	AA	AC	AD

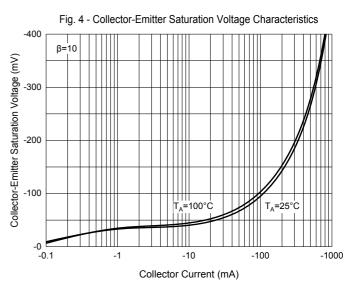


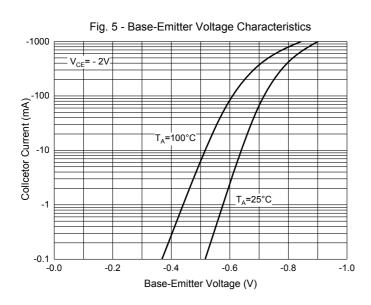
Curve Characteristics

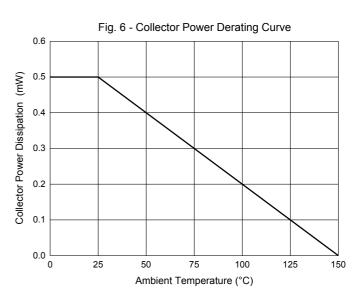














Ordering Information

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

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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