

Features

- Halogen Free. "Green" Device (Note 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

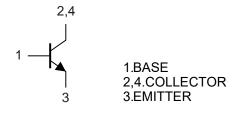
• Storage Temperature Range: -55°C to +150°C

• Thermal Resistance: 250°C/W Junction to Ambient

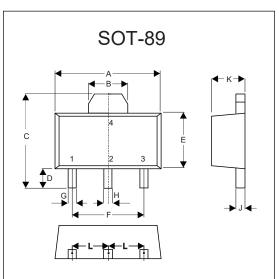
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	1	А
Collector Power Dissipation	P _C	500	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

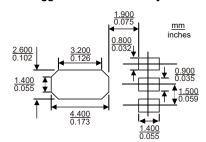


NPN Plastic Encapsulate Transistors



DIMENSIONS							
DIM INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.169	0.185	4.30	4.70			
В	0.0	0.061		0.061 1.55		55	TYP.
С	0.154	0.171	3.91	4.35			
D	0.031	0.047	0.80	1.20			
Е	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			
Ĺ	0.059		1.50		TYP.		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	60			V	$I_{C}=100\mu A, I_{E}=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	60			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =10μA, 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	μΑ	$V_{EB} = 5.0 V, I_{C} = 0$
	h _{FE(1)}	63		250		V _{CE} =2.0V, I _C =150mA
DC Current Gain	h _{FE(2)}	40				V_{CE} =2.0V, I_{C} =5mA
	h _{FE(3)}	25				V _{CE} =2.0V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V_{BE}			1.0	V	V_{CE} =2.0V, I_{C} =500mA
Transition Frequency	f _T	130			MHz	V_{CE} =5.0V, I_{C} =10mA, f=100MHz

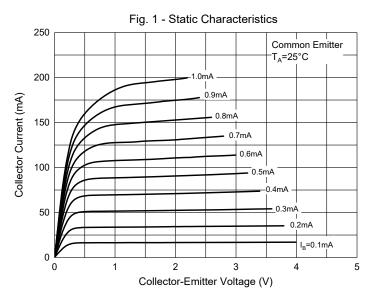
Classification of $h_{\text{FE}(1)}$

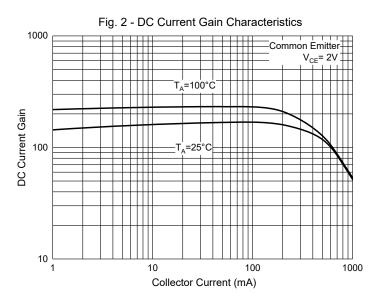
Rank	BCX55	BCX55-10	BCX55-16
Range	63~250	63~160	100~250
Marking	BE	BG	ВМ

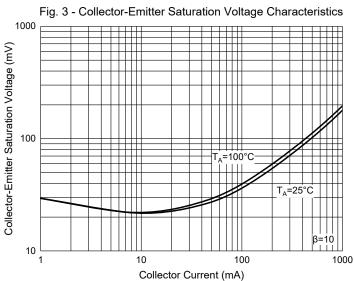
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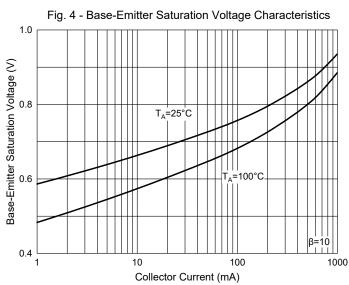


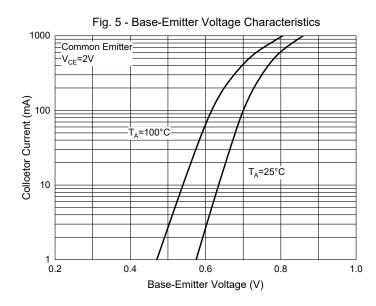
Curve Characteristics

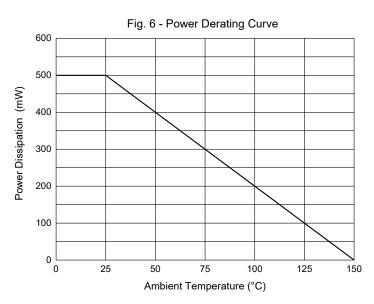














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:1Kpcs/Reel
Part Number-13P	Tape&Reel:4Kpcs/Reel

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