

Features

- Halogen Free. "Green" Device (Note 1)
- 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

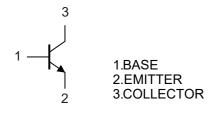
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- · Thermal Resistance: 357°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	400	V
Collector-Emitter Voltage	V _{CEO}	400	V
Emitter-Base Voltage	V _{EBO}	6	V
Continuous Collector Current	I _C	100	mA
Power Dissipation	P _D	350	mW

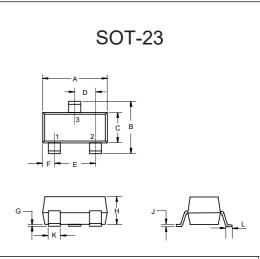
Note:

Marking: 3D

Internal Structure

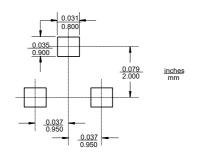


NPN Silicon High Voltage Transistor



DIMENSIONS					
DIM -	INC	INCHES		М	NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



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

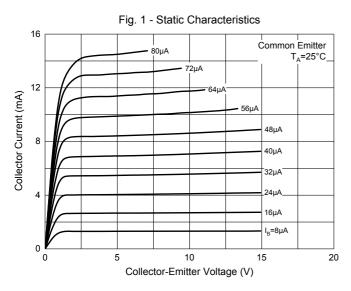


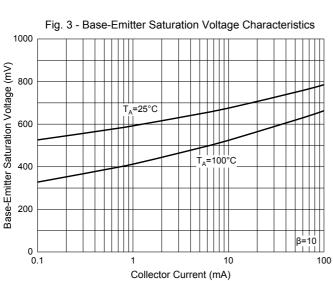
Electrical Characteristics @ $T_A=25^{\circ}C$ Unless Otherwise Specified

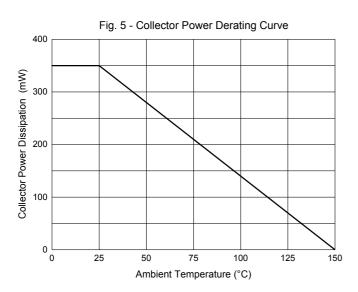
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	400			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	400			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =400V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =4V, I_C =0
DC Current Gain	h _{FE(1)}	40				V _{CE} =10V, I _C =1mA
	h _{FE(2)}	50		200		V _{CE} =10V, I _C =10mA
	h _{FE(3)}	45				V _{CE} =10V, I _C =50mA
	h _{FE(4)}	40				V _{CE} =10V, I _C =100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =1mA, I _B =0.1mA
				0.75	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			0.75	V	I _C =10mA, I _B =1mA
Transition Frequency	f _T		50		MHz	V _{CE} =20V, I _C =10mA, f=30MHz

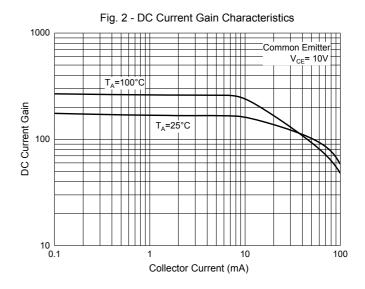


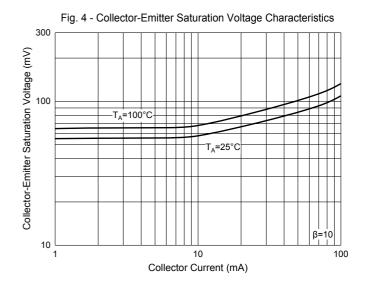
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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