

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)

NPN Plastic-Encapsulate Transistors

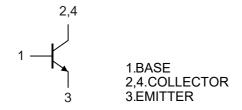
Maximum Ratings @ 25°C Unless Otherwise Specified

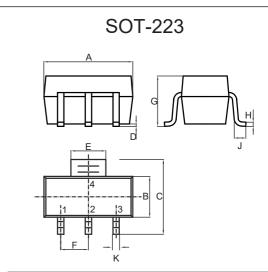
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 83.3°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	Ic	3	Α
Power Dissipation	P _D	1.5	W

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

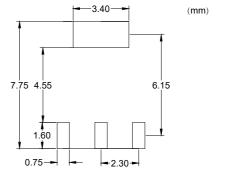
Internal Structure





DIMENSIONS					
I DIM I—¨	INC	HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOIE
Α	0.248	0.264	6.30	6.70	
В	0.130	0.146	3.30	3.70	
С	0.264	0.287	6.70	7.30	
D	0.001	0.004	0.02	0.10	
E	0.114	0.122	2.90	3.10	
F	0.0	91	2.3	30	TYP.
G		0.071		1.80	
Н	0.009	0.014	0.23	0.35	
J	0.030		0.75		
K	0.026	0.033	0.66	0.84	

Suggested Solder Pad Layout



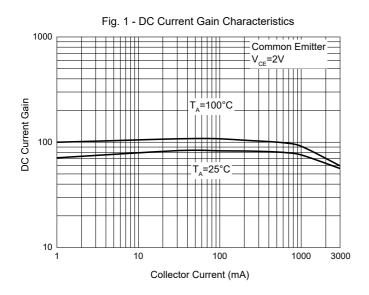


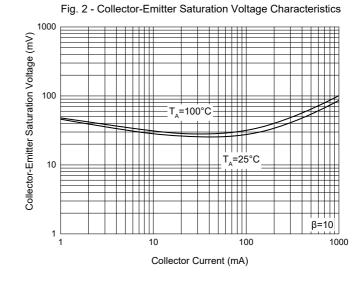
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

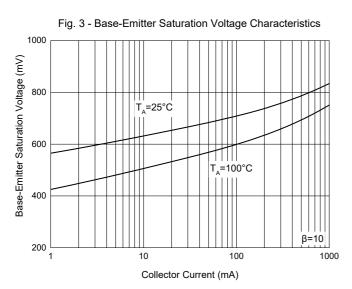
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	100			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	80			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			100	nA	V_{CB} =30V, I_E =0
	h _{FE1}	25				V_{CE} =2V, I_{C} =100mA
DC Current Gain	h _{FE2}	40		160		V_{CE} =2V, I_{C} =1A
	h _{FE3}	25				$V_{CE}=2V$, $I_{C}=3A$
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V_{BE}			1	V	V _{CE} =2V, I _C =500mA
Transition Frequency	f _T	10			MHz	V_{CE} =5V, I_{C} =1A, f=100MHz

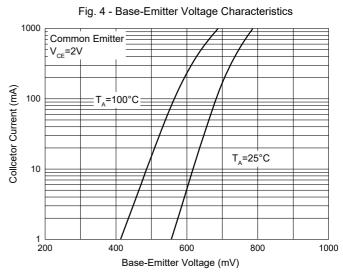


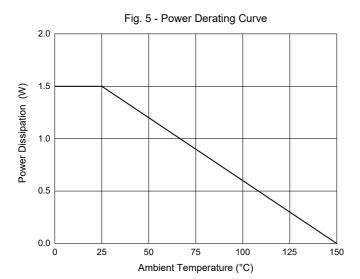
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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