

Features

- Ideally Suited for Automatic Insertion
- · Low Current, Low Voltage
- · Epitaxial Planar Die Construction
- 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: 285°C/W Junction to Ambient^(Note 2)
- Thermal Resistance: 215°C/W Junction to Soldering Point

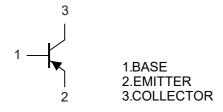
Parameter	Symbol	Rating	Unit	
Collector-Base Voltage		V _{CBO}	-60	V
Collector-Emitter Volta	V _{CEO}	-45	V	
Emitter-Base Voltage	V _{EBO}	-5	V	
Continuous Collector Current		I _C	-800	mA
Peak Collector Current		I _{CM}	-1000	mA
Continuous Base Current		I _B	-100	mA
Peak Base Current		I _{BM}	-200	mA
Power Dissipation	T _S =79°C	P _D	330	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.

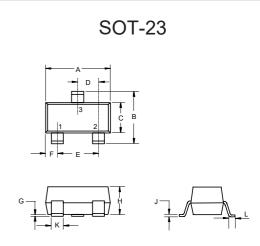
2. Valid Provided that Leads are Kept at Ambient Temperature.

Marking: DG

Internal Structure

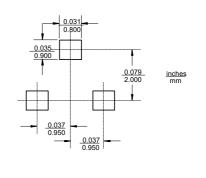


PNP Small Signal Transistor



DIMENSIONS					
DIM INCH		HES MM		М	NOTE
DIIVI	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



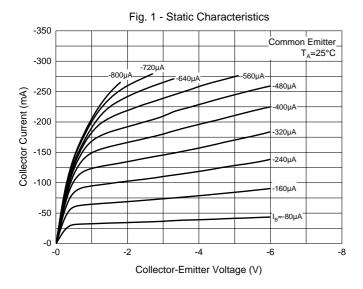


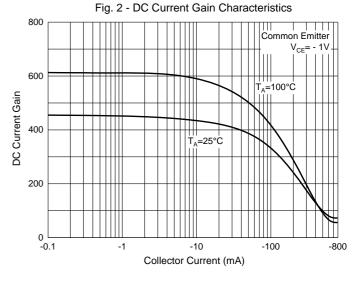
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

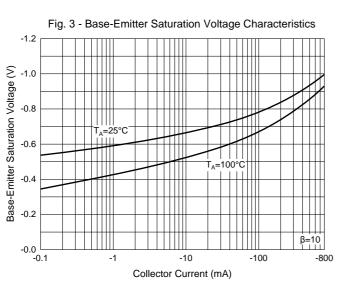
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60			V	I_{C} =-10 μ A, I_{E} =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-45			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO} -			-20	nA	V _{CB} =-45V, I _E =0
				-20	μA	V _{CB} =-45V, I _E =0, T _A =150°C
Emitter-Base Cutoff Current	I _{EBO}			-20	nA	V_{EB} =-4V, I_C =0
DC Current Gain	h _{FE(1)}	50				V _{CE} =-10V, I _C =-100μA
	h _{FE(2)}	120				V _{CE} =-1V, I _C =-10mA
	h _{FE(3)}	160	250	400		V _{CE} =-1V, I _C =-100mA
	h _{FE(4)}	60				V_{CE} =-2V, I_{C} =-500mA
Calle star Fraitter Catringtion Valtage	ge V _{CE(sat)}			-0.3	V	I _C =-100mA, I _B =-10mA
Collector-Emitter Saturation Voltage				-0.7	V	I _C =-500mA, I _B =-50mA
Base-Emitter Saturation Voltage	V _{BE(sat)} -			-1.25	V	I _C =-100mA, I _B =-10mA
				-2.0	V	I _C =-500mA, I _B =-50mA
Transition Frequency	f _T		200		MHz	V _{CE} =-5V,I _C =-50mA,f=100MHz
Collector-Base Capacitance	C _{CB}		6		pF	V _{CB} =-10V, f=1MHz
Emitter-Base Capacitance	C _{EB}		60		pF	V _{EB} =-0.5V, f=1MHz

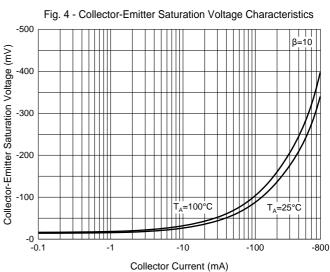


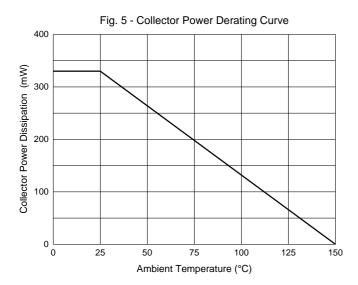
Curve Characteristics













Ordering Information

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

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