

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: 500°C/W Junction to Ambient

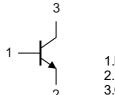
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	120	V
Collector-Emitter Voltage	V _{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I _C	1	Α
Power Dissipation	P_{D}	250	mW

Note

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

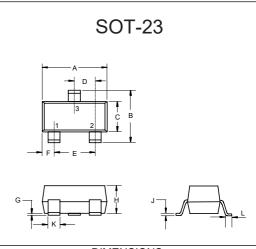
Marking: 493

Internal Structure



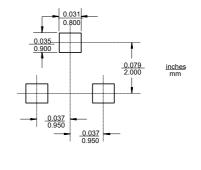
1.BASE 2.EMITTER 3.COLLECTOR

NPN Silicon Planar Medium Power Transistor



DIMENSIONS					
DIM	INCHES		MM		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	
E	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



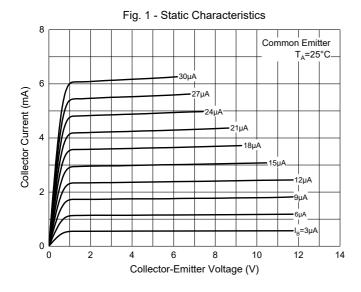


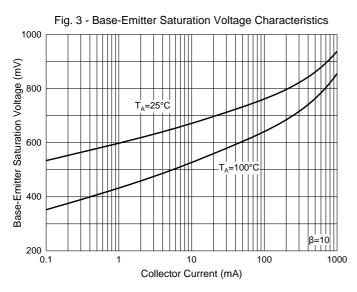
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

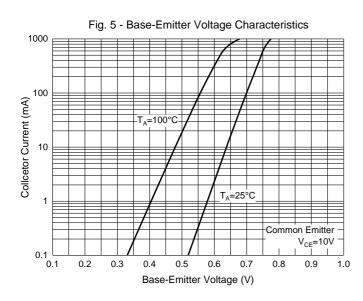
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	120			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	100			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =100V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =4V, I_C =0
DC Current Gain	h _{FE(1)}	100				V _{CE} =10V, I _C =1mA
	h _{FE(2)}	100		300		V _{CE} =10V, I _C =250mA
	h _{FE(3)}	60				V _{CE} =10V, I _C =500mA
	h _{FE(4)}	20				V _{CE} =10V, I _C =1A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =500mA, I _B =50mA
				0.6	V	I _C =1A, I _B =100mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.15	V	I _C =1A, I _B =100mA
Base-Emitter Turn On Voltage	V _{BE(on)}			1.0	V	V _{CE} =10V, I _C =1A
Transition Frequency	f _T	150			MHz	V _{CE} =10V,I _C =50mA,f=100MHz
Output Capacitance	C _{ob}			10	pF	V _{CB} =10V, I _E =0, f=1MHz

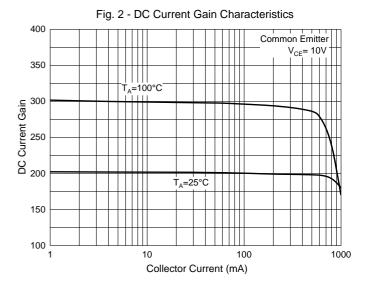


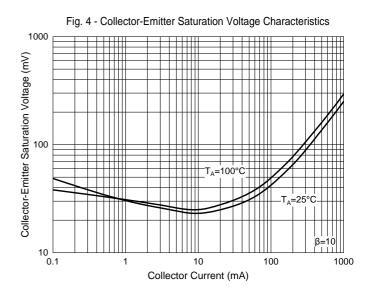
Curve Characteristics

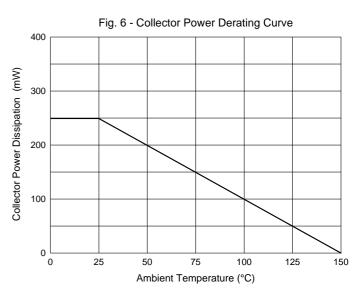














Ordering Information

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

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