

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

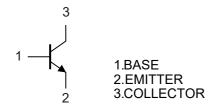
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	6	V
Continuous Collector Current	I _C	1	Α
Power Dissipation	P _D	350	mW

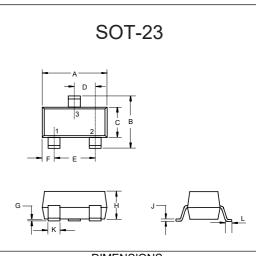
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Marking: 16A

Internal Structure

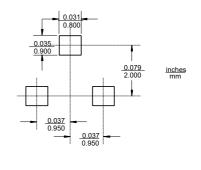


NPN General Purpose Amplifier



DIMENSIONS					
DIM INCHES		М	М	NOTE	
וווט	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 @ $T_A=25^{\circ}C$ Unless Otherwise Specified

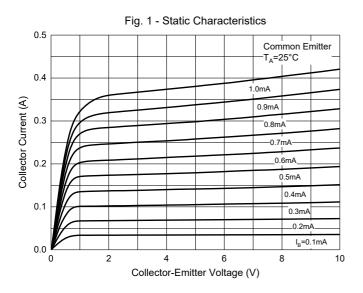
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	120			V	I _C =10μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	60			V	I _C =2mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =60V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =6V, I_C =0
DC Current Gain	h _{FE(1)}	135		600		V _{CE} =2V, I _C =100mA
DC Current Gain	h _{FE(2)}	81				V _{CE} =2V, I _C =1A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =1A, I _B =50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.2	V	I _C =1A, I _B =50mA
Base-Emitter Voltage	V _{BE}		0.6	0.7	V	V_{CE} =2V, I_{C} =50mA
Transition Frequency	f _T	100			MHz	V _{CE} =2V, I _C =100mA, f=100MHz
Collector-Base Capacitance	C _{ob}			19	pF	V _{CB} =10V, I _E =0,f=1MHz

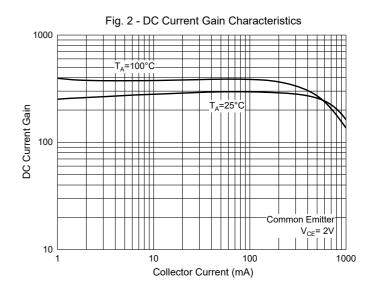
Classification of h_{FE(1)}

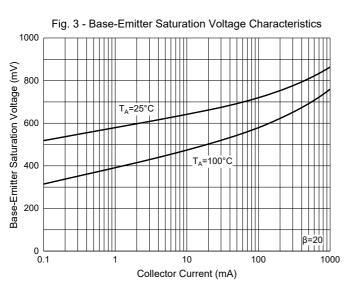
Rank	Y	G	L
Range	135-270	200-400	300-600

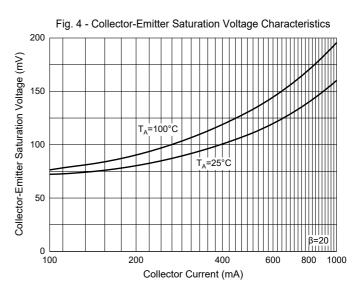


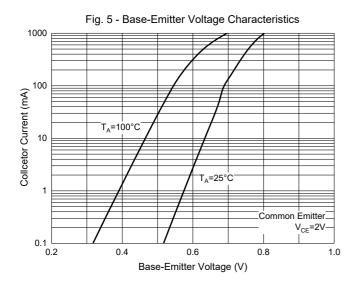
Curve Characteristics

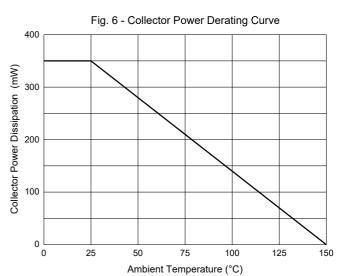














Ordering Information

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

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