

Features

- Low V_{CE(sat)} Optimal for Low Voltage Operation
- 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

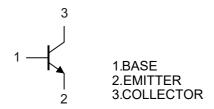
• Storage Temperature Range: -55°C to +150°C

• Thermal Resistance: 625°C/W Junction to Ambient

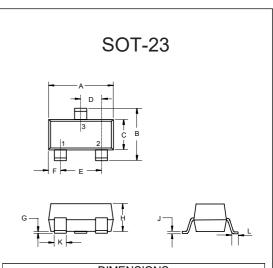
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	32	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	500	mA
Power Dissipation	P _D	200	mW

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

Internal Structure

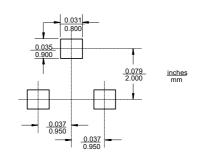


NPN Silicon Epitaxial Transistors



DIMENSIONS					
DIM	INCHES		MM		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	
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

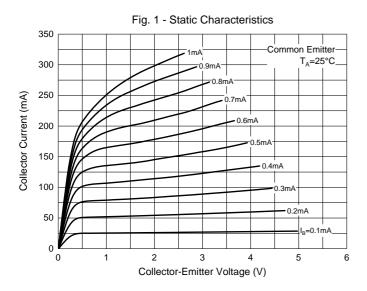
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	40			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	32			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			1	μA	V _{CB} =20V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			1	μA	V_{EB} =4V, I_C =0
DC Current Gain	h _{FE}	82		390		V _{CE} =3V, I _C =100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =500mA, I _B =50mA
Transition Frequency	f _T		250		MHz	V _{CE} =5V,I _C =20mA,f=1MHz
Collector Output Capacitance	C _{ob}		6		pF	V _{CB} =10V,I _E =0,f=1MHz

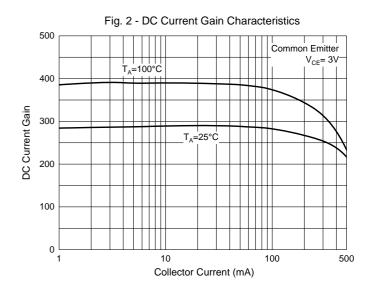
Classification of h_{FE}

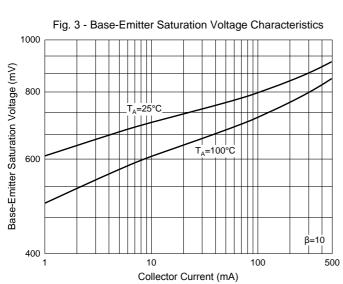
Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	СР	CQ	CR

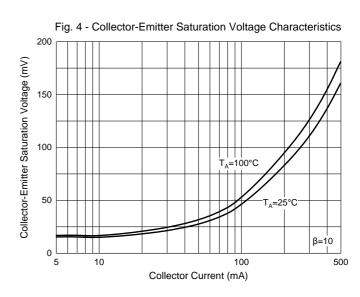


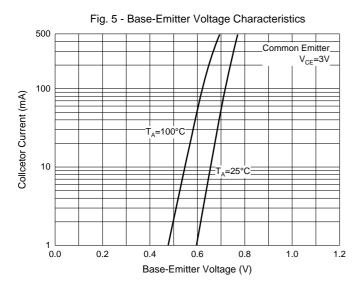
Curve Characteristics

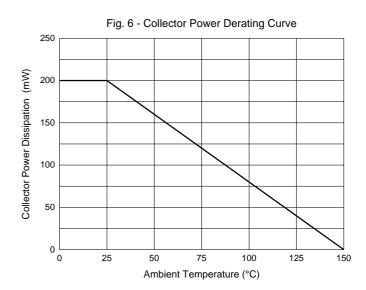














Ordering Information

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

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