

Features

- · AEC-Q101 Qualified
- 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 Silicon General Purpose 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

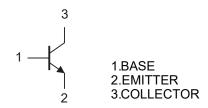
• Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	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.

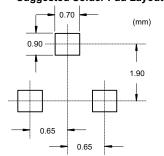
Internal Structure



SOT-323

DIMENSIONS					
DIM INCHES		M	М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout





Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

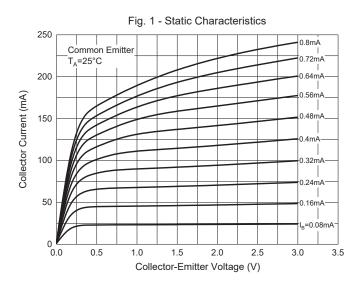
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	I _C =10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	45			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	$I_E=1\mu A, I_C=0$
Collector Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =20V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =5V, I_C =0
DC Current Gain	h _{FE(1)}	100		600		V _{CE} =1V, I _C =100mA
De Curient Gain	h _{FE(2)}	40				V _{CE} =1V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.7	V	I _C =500mA, I _B =50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.2	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V _{BE}			1.2	V	V _{CE} =1V, I _C =500mA
Transition Frequency	f _T	100			MHz	V _{CE} =5V, I _C =10mA, f=100MHz
Collector Capacitance	C _C			5	pF	V _{CB} =10V, I _E =0, f=1MHz

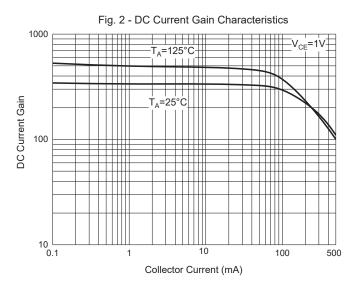
Classification of h_{FE(1)}

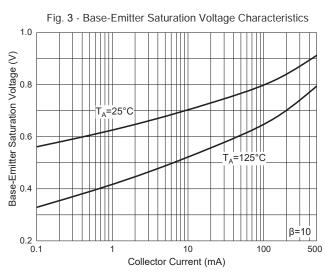
Rank	BC817-16WHE3	BC817-25WHE3	BC817-40WHE3
Range	100-250	160-400	250-600
Marking	6A	6B	6C

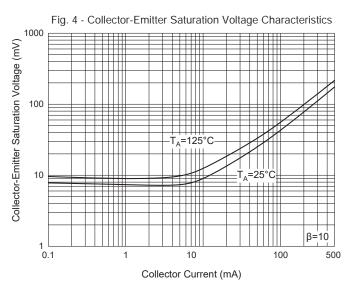


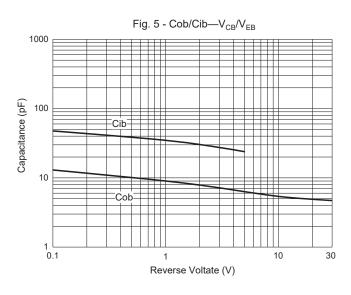
Curve Characteristics

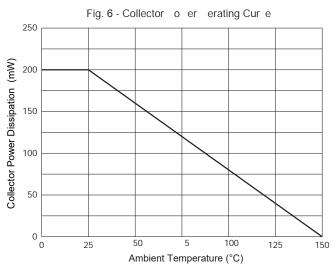














Ordering Information

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

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