

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- · 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)

PNP General Purpose Amplifier

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-30	V
Collector-Emitter Voltage	V _{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I _C	-100	mA
Power Dissipation	P_D	300	mW

Thermal characteristics

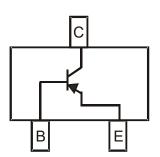
Parameter	Symbol	Rating	Unit
Junction Temperature Range	T _j	-55~+150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(J-A)	417	°C/W

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

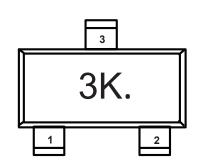
SOT-23

DIMENSIONS					
DIM	INC	INCHES		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	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

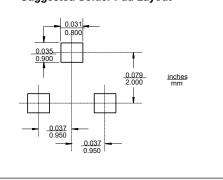
Internal Structure



Marking Code



Suggested Solder Pad Layout



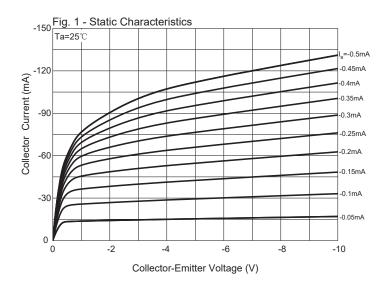


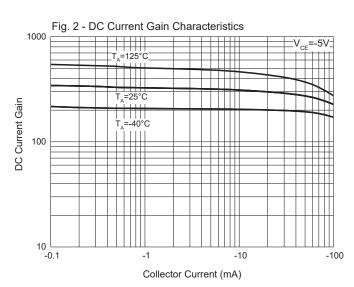
Electrical Characteristics @ 25°C Unless Otherwise Specified

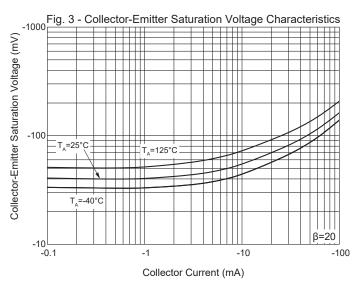
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-30			V	I_{C} =-10 μ A, I_{E} =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_{E}=-1\mu A, I_{C}=0$
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-30V,I _E =0
Collector-Emitter Cutoff Current	I _{CEO}			-100	nA	V _{CE} =-30V,I _B =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V _{EB} =-5V,I _C =0
DC Current Gain	h _{FE}	220		475		V _{CE} =-5V, I _C =-2mA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.65	V	I _C =-100mA, I _B =-5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.1	V	I _C =-100mA, I _B =-5mA
Transition Frequency	f _T	100			MHz	V _{CE} =-5V, I _C =-10mA, f=30MHz
Collector Output Capacitance	C_{ob}			4.5	pF	V _{CB} =-10V, f=1MHz

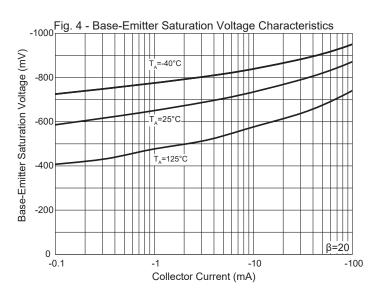


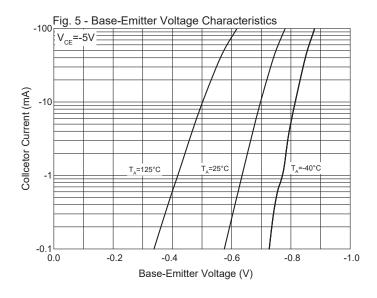
Curve Characteristics

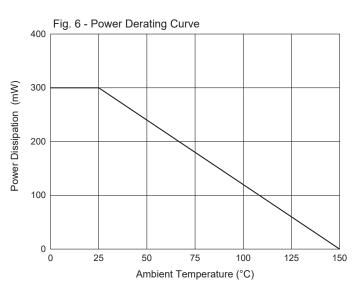














Ordering Information

Device	Packing			
BC858BHE3-TP	Tape&Reel: 3Kpcs/Reel			

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