

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)



Maximum Ratings @ 25°C Unless Otherwise Specified

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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	PD	300	mW

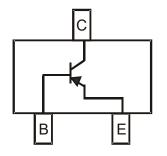
Thermal characteristics

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

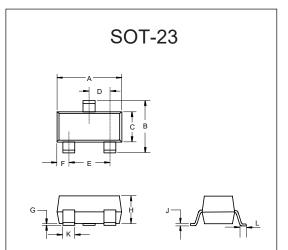
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

Marking Code

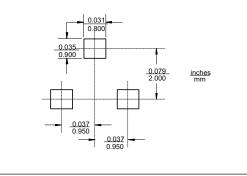


3 3J.



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		NS	IENSIO	DIM			
NOTE	MM		DIM				
	NOTE	MAX	MIN	MAX	MIN		
		3.04	2.80	0.120	0.110	Α	
		2.64	2.10	0.104	0.083	В	
		1.40	1.20	0.055	0.047	С	
		1.05	0.85	0.041	0.034	D	
		2.10	1.70	0.083	0.067	E	
		0.60	0.45	0.024	0.018	F	
		0.15	0.01	0.006	0.0004	G	
		1.10	0.90	0.043	0.035	Н	
		0.18	0.08	0.007	0.003	J	
		0.51	0.35	0.020	0.014	K	
		0.50	0.20	0.020	0.007	L	
		1.05 2.10 0.60 0.15 1.10 0.18 0.51	0.85 1.70 0.45 0.01 0.90 0.08 0.35	0.041 0.083 0.024 0.006 0.043 0.007 0.020	0.034 0.067 0.018 0.0004 0.035 0.003 0.014	D E F G H J	

Suggested Solder Pad Layout



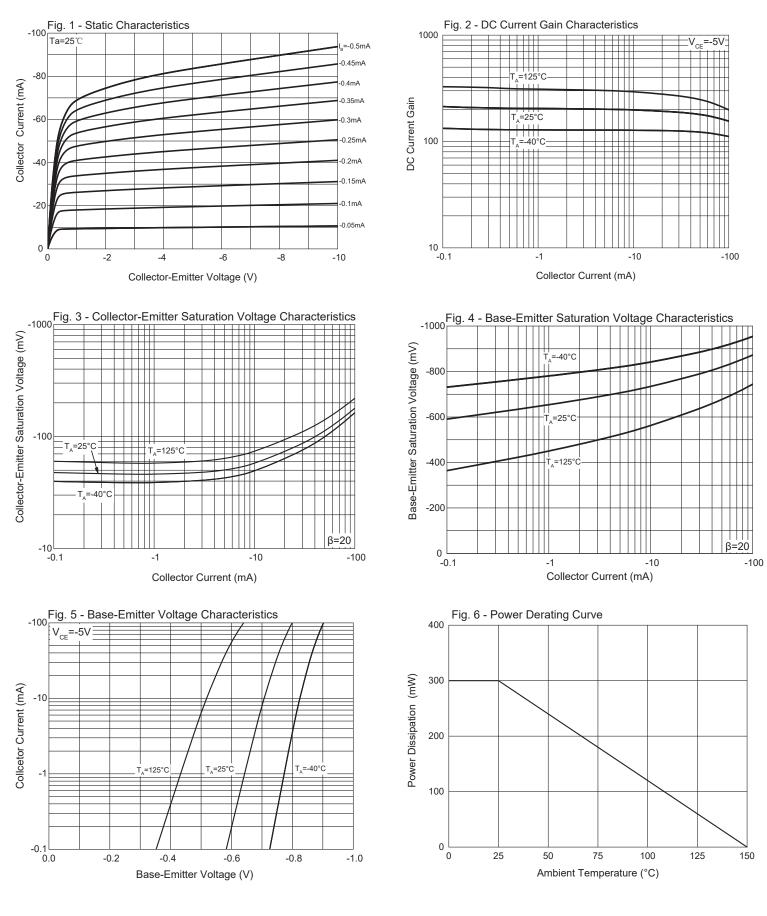


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-30			V	Ι _C =-10μΑ, Ι _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	Ι _E =-1μΑ, Ι _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}	125		250		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}			5	pF	V _{CB} =-10V, f=1MHz



Curve Characteristics





Ordering Information

Device	Packing			
BC858AHE3-TP	Tape&Reel: 3Kpcs/Reel			

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