

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

Operating Junction Temperature Range: -55°C to +150°C

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

Maximum Thermal Resistance: 556°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}		٧
BC846AHE3-846BHE3 BC847AHE3-847CHE3 BC848AHE3-848CHE3		80 50 30	
Collector-Emitter Voltage	V_{CEO}		V
BC846AHE3-846BHE3 BC847AHE3-847CHE3 BC848AHE3-848CHE3		65 45 30	
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I _C	100	mA
Collector Power Dissipation	P _C	225	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

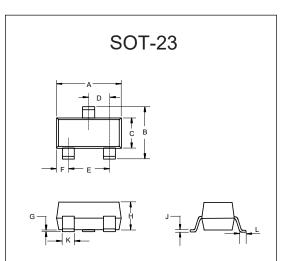


Marking:

BC846AHE3:1A; BC846BHE3:1B;

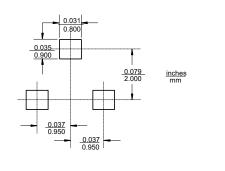
BC847AHE3:1E; BC847BHE3:1F; BC847CHE3:1G; BC848AHE3:1J; BC848BHE3:1K; BC848CHE3:1L;

NPN Plastic-Encapsulate Transistors



DIMENSIONS					
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	INOIL
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	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



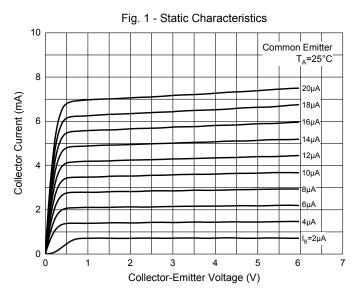


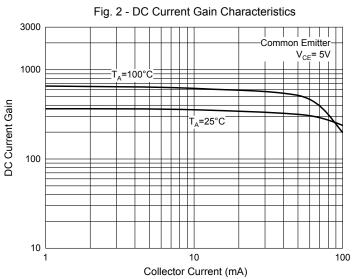
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

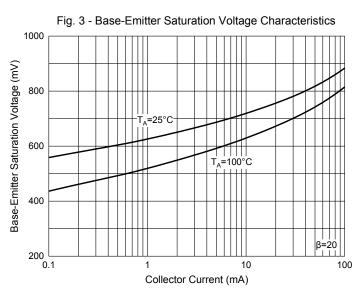
Parameter	Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage							
BC846AHE3-BC846BHE3	\/	80			V	$I_{C}=10\mu A, I_{E}=0$	
BC847AHE3-BC847CHE3	$V_{(BR)CBO}$	50					
BC848AHE3-BC848CHE3		30					
Collector-Emitter Breakdown Voltage							
BC846AHE3-BC846BHE3		65			V	I _C =10mA, I _B =0	
BC847AHE3-BC847CHE3	$V_{(BR)CEO}$	45			V		
BC848AHE3-BC848CHE3		30					
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	6			V	I _E =10μA, I _C =0	
Collector Cut-off Current							
BC846AHE3-BC846BHE3				0.1 μΑ		V_{CB} =70V, I_{E} =0	
BC847AHE3-BC847CHE3	I _{CBO}					V_{CB} =50V, I_E =0	
BC848AHE3-BC848CHE3						$V_{CB}=30V$, $I_{E}=0$	
Emitter Cutoff Current							
BC846AHE3-BC846BHE3				0.4		V_{CE} =60V, I_{B} =0	
BC847AHE3-BC847CHE3	I _{CEO}			0.1	μA	V_{CE} =45V, I_{B} =0	
BC848AHE3-BC848CHE3						$V_{CE}=30V$, $I_{B}=0$	
Emitter Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =5V, I_C =0	
DC Current Gain							
BC846AHE3-BC848AHE3	h	110		220		V 5V 1 2m A	
BC846BHE3-BC848BHE3	h _{FE}	200		450		$V_{CE}=5V$, $I_{C}=2mA$	
BC847CHE3-BC848CHE3		420		800			
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.25	V	I _C =10mA, I _B =0.5mA	
				0.5	V	I _C =100mA, I _B =5mA	
Base-Emitter Saturation Voltage	V _{BE(sat)} -		0.7		V	I _C =10mA, I _B =0.5mA	
			0.9	1.1	V	I _C =100mA, I _B =5mA	
Transition Frequency	f _T	100			MHz	V _{CE} =5V, I _C =10mA, f=100MHz	
Collector Output Capacitance	C _{ob}			4.5	pF	V _{CB} =10V, I _E =0, f=0.1MHz	

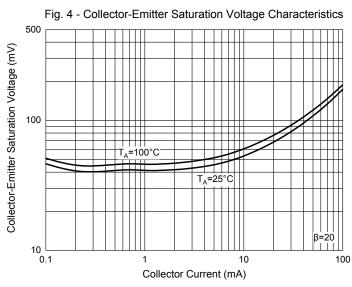


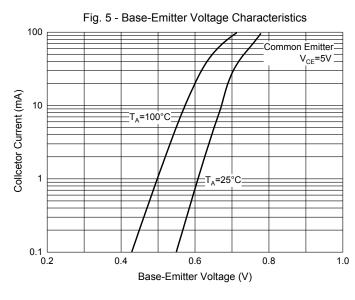
Curve Characteristics

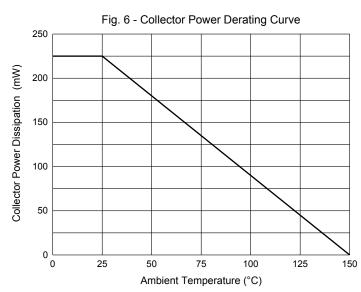














Ordering Information

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

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