

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Low Frequency Power Amplifier
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{CBO}	Collector-Base Voltage	-70	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current	-4	A
Pc	Collector power dissipation	2.0	W
TJ	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Туре	Max	Units		
OFF CHARA	OFF CHARACTERISTICS						
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _c =-50mAdc, I _B =0)	-50	-50 Vdc		Vdc		
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =-10µAdc, I _E =0)	-70	0 Vde		Vdc		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =-10µAdc, I _C =0)	-5	-5 Vdc		Vdc		
I _{CBO}	I _{CBO} Collector-Base Cutoff Current (V _{CB} =-50Vdc,I _E =0)		-1	µAdc			
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =-5Vdc, I _C =0)	rent1 μ,		µAdc			

ON CHARACTERISTICS

h _{FE}	Forward Current Transfer ratio				
	(I _C =-1Adc, V _{CE} =-4Vdc)	60		320	
V _{CE(sat)}	Collector-Emitter Saturation Voltage1		-1	Vdc	
. ,	(I _C =-2mAdc, I _B =-200mAdc)				
V _{BE}	Base-Emitter Voltage	1 Vo		Vdc	
	(I _C =-1Adc,V _{CE} =-4Vdc)				
f _T	Transition frequency		15		MHz
	$(V_{CE}=-4Vdc, I_{C}=-500mA)$				

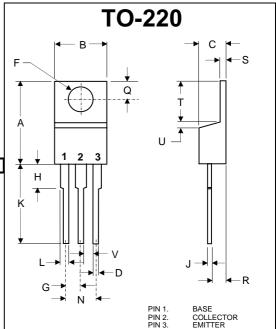
Classification OF hreed

Rank	В	С	D	
Range	60-120	100-200	160-320	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

2SB857-B 2SB857-C 2SB857-D

PNP Silicon Power Transistors



		DIME	ENSIONS				
	INC	INCHES		MM		5 MM	
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.560	.625	14.22	15.88			
В	.380	.420	9.65	10.67			
С	.140	.190	3.56	4.82			
D	.020	.045	0.51	1.14			
F	.139	.161	3.53	4.09	Ø		
G	.190	.110	2.29	2.79			
Н		.250		6.35			
J	.012	.025	0.30	0.64			
К	.500	.580	12.70	14.73			
L	.045	.060	1.14	1.52			
Ν	.190	.210	4.83	5.33			
Q	.100	.135	2.54	3.43			
R	.080	.115	2.04	2.92			
S	.045	.055	1.14	1.39			
Т	.230	.270	5.84	6.86			
U		.050		1.27			
V	.045		1.15				

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Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1 Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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