

Micro Commercial Components



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

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
Ic	Collector Current	-4	Α
Pc	Collector power dissipation	2.0	W
T _J	Junction Temperature	-55 to +150	$^{\circ}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Type	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage -50 (I _C =-50mAdc, I _B =0)			Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage $(I_C=-10uAdc, I_E=0)$				Vdc
$V_{(BR)EBO}$	EBO Emitter-Base Breakdown Voltage -5 (I _E =-10uAdc, I _C =0)			Vdc	
I _{CBO}	I_{CBO} Collector-Base Cutoff Current $(V_{CB}$ =-50Vdc, I_{E} =0)			-1	uAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =-5Vdc, I _C =0)			-1	uAdc

ON CHARACTERISTICS

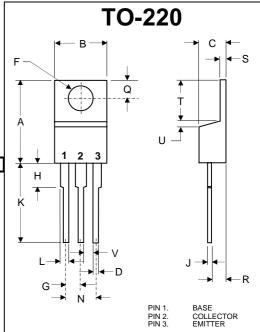
h_{FE}	Forward Current Transfer ratio				
	(I _C =-1Adc, V _{CE} =-4Vdc)			200	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			-1	Vdc
. ,	$(I_C=-2mAdc, I_B=-200mAdc)$				
V_{BE}	Base-Emitter Voltage			-1	Vdc
	(I _C =-1Adc,V _{CE} =-4Vdc)				
f⊤	Transition frequency		15		MHz
	$(V_{CE}=-4Vdc, I_{C}=-500mA)$				

Classification OF herro

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

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

PNP Silicon Power Transistors



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.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	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.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; 1Kpcs/Box

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

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