

Micro Commercial Components



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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Power amplifier applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{CBO}	Collector-Base Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current	3	A	
Pc	Collector power dissipation	1.5	W	
ΤJ	Junction Temperature	-55 to +150	°C	
T _{STG}	Storage Temperature	-55 to +150	°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

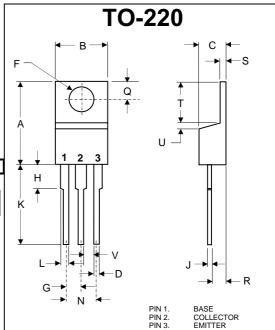
Symbol	Parameter	Min	Туре	Max	Units
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage 60			Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =100uAdc, I _E =0)	60			Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100uAdc, I _C =0)	7			Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =60Vdc,I _E =0)			100	uAdc
I _{EBO}	I _{EBO} Emitter-Base Cutoff Current (V _{EB} =7Vdc, I _C =0)			100	uAdc

ON CHARACTERISTICS

h _{FE}	Forward Current Transfer ratio (I _c =500mAdc, V _{cr} =5Vdc)			60		300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage					1	Vdc
V _{BE}	Base-Emitter Voltage (I _c =0.5Adc,V _{cE} =5Vdc)					1	Vdc
f⊤	Transistor Frequency (I _c =500mAdc, V _{ce} =5Vdc)				3		MHz
C _{ob}	Collector Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1MHz)				70		pF
t _{on}	Turn on time	I _{B1} =-I _{B2} =0.2A, I _C =2A, V _{CC} =30V, PW=20us			0.8		US
ts	Storage time				1.5		US
t _f	Fall time				0.8		us
Classification OF hreed							
Rank	Q		Y		GR		
Range	60-120		100-200		150-300		

2SD880-Q 2SD880-Y 2SD880-GR

NPN Silicon Power Transistors



DIMENSIONS								
	INCHES		INCHES MM			ES 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					

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

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Ordering Information :

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

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