



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SD880-Q 2SD880-Y 2SD880-GR

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
Ic	Collector Current	3	Α
Pc	Collector power dissipation	1.5	W
T_J	Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Type	Max	Units
OFF CHARA					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =50mAdc, I _B =0)				Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _c =100uAdc, I _E =0)				Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100uAdc, I _C =0)				Vdc
I _{CBO}	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

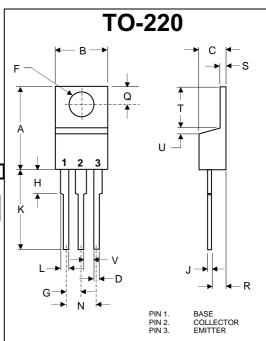
h _{FE}	Forward Current Transfer ratio					
	(I _C =500mAdc, V _{CE} =5Vdc)				300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =3Adc, I _B =300mAdc)				1	Vdc
V_{BE}	Base-Emitter Voltage (I _C =0.5Adc,V _{CE} =5Vdc)				1	Vdc
f _⊤	Transistor Frequency (I _C =500mAdc, V _{CE} =5Vdc)			3		MHz
C _{ob}	Collector Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1MHz)			70		pF
t _{on}	Turn on time	1 -1 -0.24 1-24		0.8		us
t _s	Storage time	$I_{B1}=-I_{B2}=0.2A, I_{C}=2A,$ $V_{CC}=30V, PW=20us$		1.5		us
t _f	Fall time	V _{CC} =30V, 1 VV=20us		0.8		us

Classification OF hem

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Rank	Q	Υ	GR	
Range	60-120	100-200	150-300	

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

NPN 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

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