

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

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)
- Power amplifier applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Mounting Torque: 5 in-lbs Maximum

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	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Type	Max	Units
OFF CHARA	CTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =50mAdc, I _B =0)	60			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100µAdc, I _E =0)	60			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100µAdc, I _C =0)	7			Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =60Vdc,I _E =0)			100	μAdc
I _{EBO}	Emitter-Base Cutoff Current			100	μAdc

ON CHARACTERISTICS

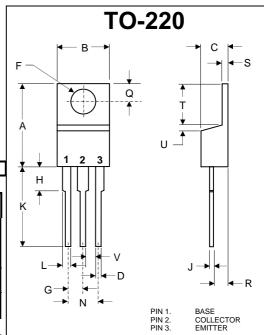
h _{FE}	Forward Current Transfer ratio					
	$(I_C=500\text{mAdd})$	c, V _{CE} =5Vdc)	60		300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _C =3Adc, I _B =300mAdc)			1	1	Vdc
V_{BE}	Base-Emitter Voltage (I _C =0.5Adc,V _{CE} =5Vdc)				1	Vdc
f _⊤	Transistor Frequency (I _C =500mAdc, V _{CE} =5Vdc)			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		μs
t _s	Storage time	$I_{B1}=-I_{B2}=0.2A$, $I_{C}=2A$, $V_{CC}=30V$, PW=20us		1.5		μs
t _f	Fall time	VCC=30 V, 1 VV=20us		0.8		μs

Classification OF hern

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				
	INC	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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