



Micro Commercial Components



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**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
- Moisture 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
I _C	Collector Current	3	A
P _C	Collector power dissipation	1.5	W
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Type	Max	Units
OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =50mA, I _B =0)	60	---	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =100uA, I _E =0)	60	---	---	Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100uA, I _C =0)	7	---	---	Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =60Vdc, I _E =0)	---	---	100	uA
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =7Vdc, I _C =0)	---	---	100	uA

ON CHARACTERISTICS

h _{FE}	Forward Current Transfer ratio (I _C =500mA, V _{CE} =5Vdc)	60	---	300	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =3A, I _B =300mA)	---	---	1	Vdc
V _{BE}	Base-Emitter Voltage (I _C =0.5A, V _{CE} =5Vdc)	---	---	1	Vdc
f _T	Transistor Frequency (I _C =500mA, 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	---	0.8	---	us
t _s	Storage time	---	1.5	---	us
t _f	Fall time	---	0.8	---	us

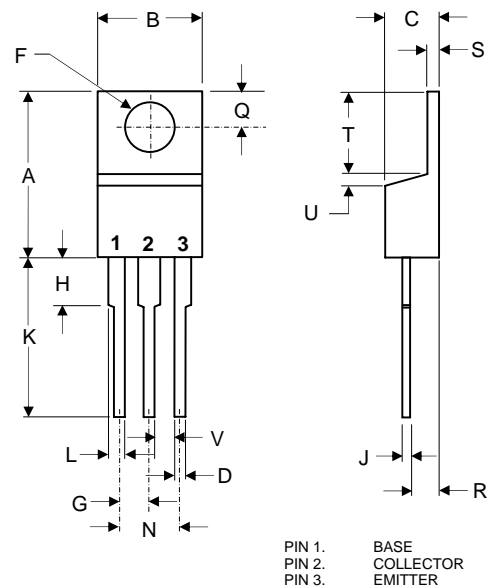
Classification Of h_{FE}

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

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

**NPN Silicon
Power Transistors**

TO-220



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	∅
G	.190	.110	2.29	2.79	
H	---	.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	
T	.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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