

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

Features

- With TO-220 package
- · Power amplifier applications
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

MPN Silicon Power Transistors

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	$^{\circ}$ C
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

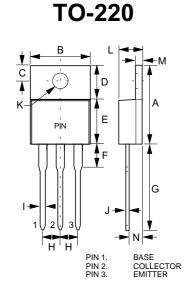
Symbol	Parameter	Min	Type	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =50mAdc, I _B =0)	60			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100uAdc, I _E =0)	60			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100uAdc, I _C =0)	7			Vdc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

ON CHARACTERISTICS

h _{FE}	Forward Curre	Forward Current Transfer ratio				
	$(I_C=500 \text{mAdc}, V_{CE}=5 \text{Vdc})$		60		300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage				1	Vdc
	(I _C =3Adc, I _B =300mAdc)					
V_{BE}	Base-Emitter Voltage				1	Vdc
	(I _c =0.5Adc,V	0.5Adc,V _{CE} =5Vdc)				
f⊤	Transistor Frequency			3		MHz
	(I _C =500mAdc, V _{CE} =5Vdc)					
C_{ob}	Collector Outp	ut Capacitance		70		pF
	(V _{CB} =10Vdc, I _E	Vdc, I _E =0, f=1MHz)				
t _{on}	Turn on time	1 - 1 -0 24 1 -24		0.8		us
ts	Storage time	I _{B1} =-I _{B2} =0.2A, I _C =2A, V _{CC} =30V, PW=20us		1.5		us
t _f	Fall time	VCC=30V,1 VV=20ds		0.8		us

Classification OF hem

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



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.560	.625	14.22	15.88			
В	.380	.420	9.65	10.67			
С	.100	.135	2.54	3.43			
D	.230	.270	5.84	6.86			
Е	.380	.420	9.65	10.67			
F		.250		6.35			
G	.500	.580	12.70	14.73			
Н	.090	.110	2.29	2.79			
	.020	.045	0.51	1.14			
J	.012	.025	0.30	0.64			
K	.139	.161	3.53	4.09	Ø		
L	.140	.190	3.56	4.83			
M	.045	.055	1.14	1.40			
N	.080	.115	2.03	2.92			

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Revision: 3 2007/03/01



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