

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

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

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 (V _{ER} =7Vdc, I _C =0)			100	uAdc	

ON CHARACTERISTICS

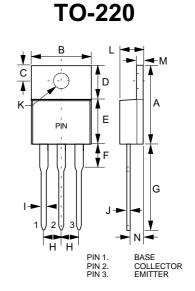
h _{FE}	Forward Curre	60		300		
	(I _C =500mAdc, V _{CE} =5Vdc)		00		300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage				1	Vdc
	$(I_C=3Adc, I_B=$	=300mAdc)				
V_{BF}	Base-Emitter	Voltage			1	Vdc
55	(I _C =0.5Adc,V _{CE} =5Vdc)					
f⊤	Transistor Frequency			3		MHz
.,	(I _C =500mAdc, V _{CF} =5Vdc)					
	Collector Output Capacitance			70		pF
C_ob				10		PΓ
	(V _{CB} =10Vdc, I _E	=0, t=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, Pvv=20us		0.8		us

Classification OF hem

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

NPN Silicon Power Transistors

er Transistors



DIMENSIONS							
	INCH	ES	MM				
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			

www.mccsemi.com

Revision: 3 2007/03/01



Micro Commercial Components

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.