

Micro Commercial Components





Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MJE3055

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) Capable of 2.0Watts of Power Dissipation.
- Collector-current 10A
- Collector-base Voltage 70V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Mounting Torgue: 5 in-lbs Maximum

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARAC	OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage 60 (Ŀ=200mAdc, l₂=0)				
V _{(BR)CBO}	Collector-Base Breakdown Voltage 70 (L=1000uAdc, L=0)		Vdc		
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage 5 (I _E =1000uAdc, I _C =0)			Vdc	
Сво	Collector Cutoff Current 1000 u $(V_{CB}=70Vdc, I_{E}=0)$		uAdc		
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, I _C =0)		5000	uAdc	

ON CHARACTERISTICS

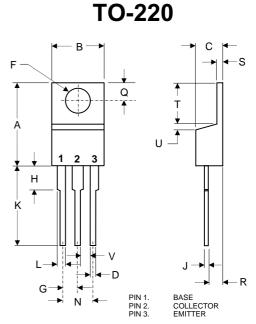
h _{FE(1)}	DC Current Gain			
	(b=4.0Adc, Vc==4.0Vdc)	20	100	
h _{FE(2)}	DC Current Gain			
	(b=10Adc, V _{cE} =4Vdc) 5.6			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
	(I _C =4Adc, I _B =0.4Adc)		1.1	Vdc
	(f_e =10Adc, f_g =3.3Adc)	Adc, I _B =3.3Adc) 1.2 V		Vdc
V _{BE}	Base-Emitter Voltage			
	(b=4Adc,V _{CE} =4V		1.8	Vdc

SMALL-SIGNAL CHARACTERISTICS

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f⊤	Transistor Frequency				
	(k=0.5Adc, V _{c=} =10Vdc, f=1.0MHz)	2.0		MHz	

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

NPN Silicon Plastic-Encapsulate **Transistor**



DIMENSIONS					
	INC	HES	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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Typical Characteristics

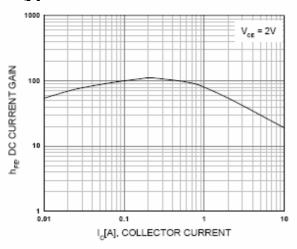


Figure 1. DC current Gain

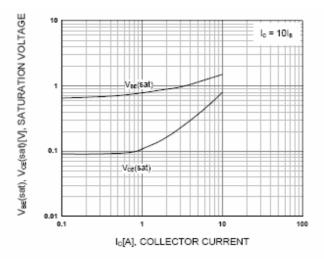


Figure 2. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

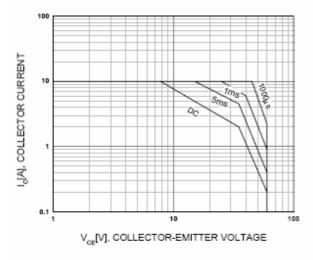


Figure 3. Safe Operating Area

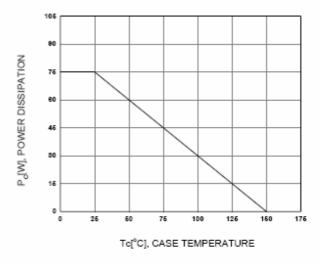


Figure 4. Power Derating

2013/01/01



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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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