



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **MJE3055**

Features

- 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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (L=200mAdc, L=0)	oltage 60		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (L=1000uAdc, L=0)	70		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (L=1000uAdc, l _c =0)	5		Vdc
Сво	Collector Cutoff Current (V _{CB} =70Vdc, I _E =0)		1000	uAdo
EBO Emitter Cutoff Current $(V_{EB}=5.0Vdc, I_c=0)$			5000	uAdc

ON CHARACTERISTICS

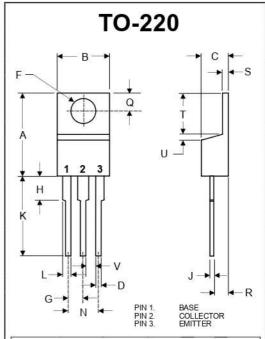
h _{FE(1)}	DC Current Gain		Ī	
37.0	(lc=4.0Adc, VcE=4.0Vdc)	20	100	
h _{FE(2)}	DC Current Gain			
15155876	(l _c =10Adc, V _{cE} =4Vdc)	5.0		3
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage			
	(l _c =4Adc, l _B =0.4Adc)		1.1	Vdc
	(l _c =10Adc, l _e =3.3Adc)		1.2	Vdc
V _{BE}	Base-Emitter Voltage			
	(b=4Adc,V _{CE} =4V		1.8	Vdc

SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequency		
	(lc=0.5Adc, VcE=10Vdc, f=1.0MHz)	2.0	MHz

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

NPN Silicon Plastic-Encapsulate **Transistor**



	COL	DIMI	ENSIONS		V	
DIM	INC	INCHES		MM		
	MIN	MAX	MIN	MAX	NOTE	
A	.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	-11	
G	.190	.110	2.29	2.79		
Н	857988	.250	2.5 5.5 8.	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	o.	
T	.230	.270	5.84	6.86		
U		.050		1.27		
V	.045		1.15			



MJE3055

Typical Characteristics

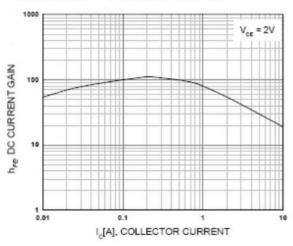


Figure 1. DC current Gain

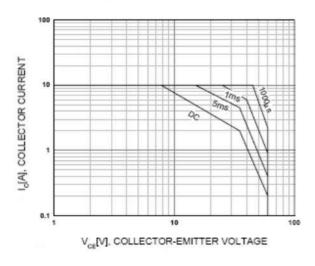


Figure 3. Safe Operating Area



Vec(sat), Vcc(sat)[V], SATURATION VOLTAGE Io[A], COLLECTOR CURRENT

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

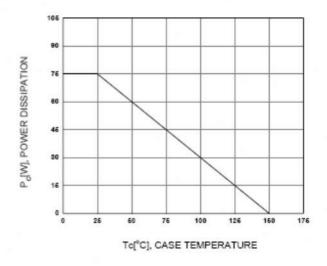


Figure 4. Power Derating



Ordering Information:

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

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