

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates • RoHS Compliant. See ordering information) Capable of 1.5Watts of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 700V .
- Operating and storage junction temperature range: -55°C to +150°C .
- Epoxy meets UL 94 V-0 flammability rating •
- Moisure Sensitivity Level 1

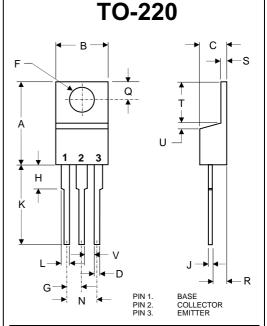
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units		
OFF CHARA	CTERISTICS						
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (t-10mAdc, t _B =0)		400		Vdc		
V _{(BR)CBO}	Collector-Base Brea (lc=1000uAdc, le=	700		Vdc			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (L=1000uAdc, I _c =0)		9.0		Vdc		
сво	Collector Cutoff Cu (V _{CB} =700Vdc, I _E =		1000	uAdc			
Εο	Collector Cutoff Cur (V _{CE} =400Vdc,I _B =0		500	uAdc			
Ево	Emitter Cutoff Curre (V _{EB} =9.0Vdc, I _C =0		1000	uAdc			
ON CHARACTERISTICS							
h _{FE(1)}	DC Current Gain (≿=0.5Adc, V _{CE} =2.0Vdc)		8.0	40			
h _{FE(2)}	DC Current Gain (h=0.5mAdc, V _{CE} =10Vdc)		5.0	-10			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (L=1000mAdc, I _B =250mAdc)			1.0	Vdc		
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage (է=1000mAdc, I₅=250mAdc)			1.2	Vdc		
V _{BE}	Base-Emitter Voltage (ᡶ=2000mAdc)			3.0	Vdc		
SMALL-SIG	NAL CHARACTERISTIC	S					
f _T	Transistor Frequency						
	(<u>L</u> =100mAdc, V _{CE} =10Vdc, f=1.0MHz)		5.0	0.5	MHz		
t _F	Fall Time	V _{cc} =100V,I _c =1.0		0.5	uS		
ts	Storage Time	A,I _{B1} =b ₂ =0.2A		2.5	uS		

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

MJE13003

NPN Silicon Plastic-Encapsulate Transistor



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.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			
К	.500	.580	12.70	14.73			
L	.045	.060	1.14	1.52			
Ν	.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				

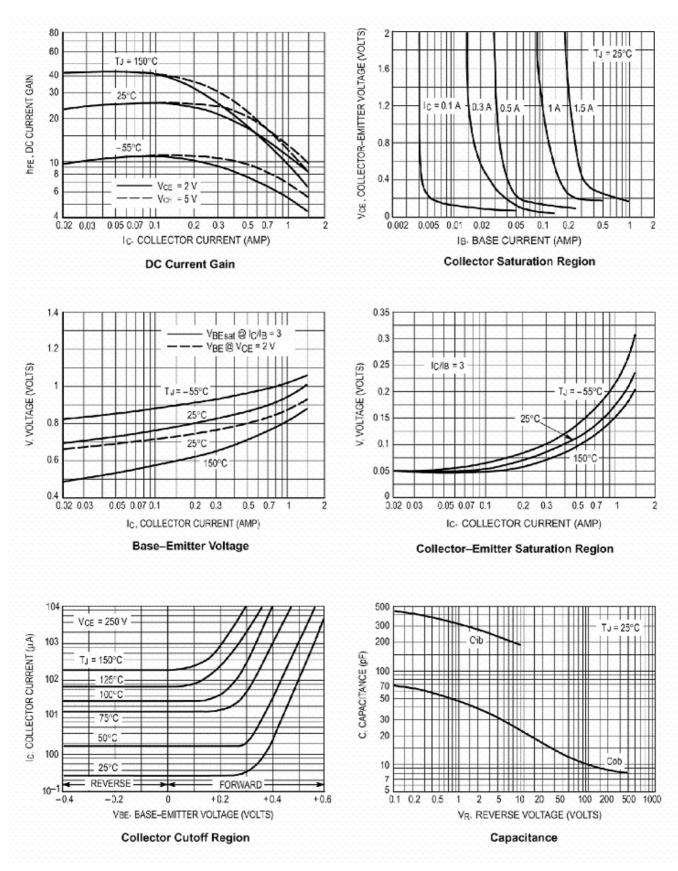
www.mccsemi.com

MJE13003



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Typical Characteristics



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Ordering Information :

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

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