



Micro Commercial Components



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MJE13007

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Power dissipation: 2W (T_A=25°C)
- Collector current: 8A
- Operating and storage junction temperature range
 T_J, T_{stg}: -55°C +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Noted

Symbol	Rating	Type	Min	Max	Unit
V _{CEO}	Collector-Emitter Breakdown Voltage (I _C =10mA, I _E =0)	---	400	---	V
V _{CBO}	Collector-Base Breakdown Voltage (I _C =1mA, I _E =0)	---	700	---	V
V _{EBO}	Emitter-Base Breakdown Voltage (I _E =1mA, I _C =0)	---	9.0	---	V
I _{CBO}	Collector Cutoff Current (V _{CB} =700V, I _E =0)	---	---	1	mA
I _{EBO}	Emitter Cutoff Current (V _{BE} =9.0V, I _C =0)	---	---	100	µA
h _{FE}	DC Current Gain (I _C =2.0A, V _{CE} =5.0V) (I _C =5.0A, V _{CE} =5.0V)	---	8.0 5.0	40 30	---
V _{CE(SAT)}	Collector-Emitter Saturation Voltage (I _C =2.0A, I _B =0.4A)	---	---	1.0	V
V _{BE(SAT)}	Base-Emitter Saturation Voltage (I _C =2.0A, I _B =0.4A)	---	---	1.2	V
f _T	Current Gain-Bandwidth Product (I _C =500mA, V _{CE} =10V, f=1.0MHz)	---	4.0	---	MHz
C _{ob}	Output Capacitance (V _{CB} =10V, I _E =0, f=0.1MHz)	80	---	---	pF
tr	Fall Time (V _{CC} =125V, I _C =5.0A, I _{B1} =-I _{B2} =1.0A)	---	---	0.7	µs
ts	Storage Time (V _{CC} =125V, I _C =5.0A, I _{B1} =-I _{B2} =1.0A)	---	---	3	µs

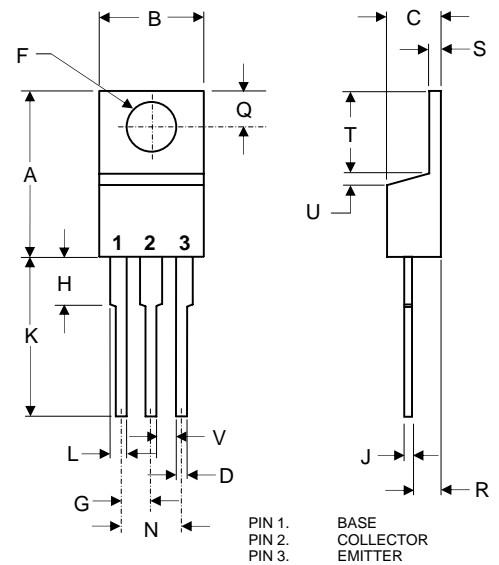
Classification of h_{FE}(1)

Rank						
Range	8-15	15-20	20-25	25-30	30-35	35-40

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

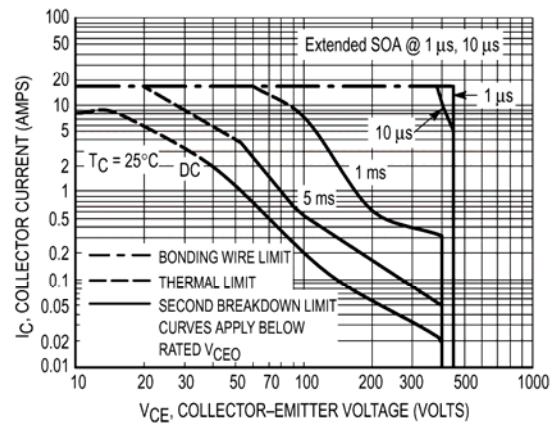
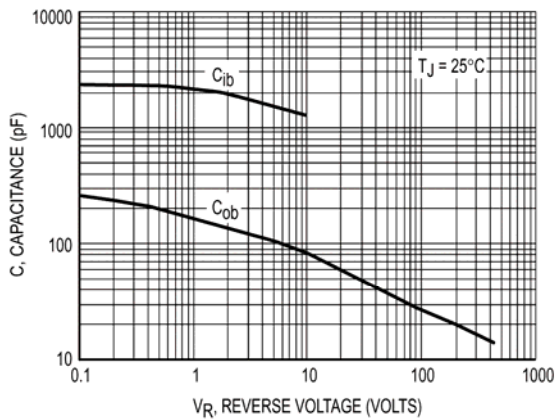
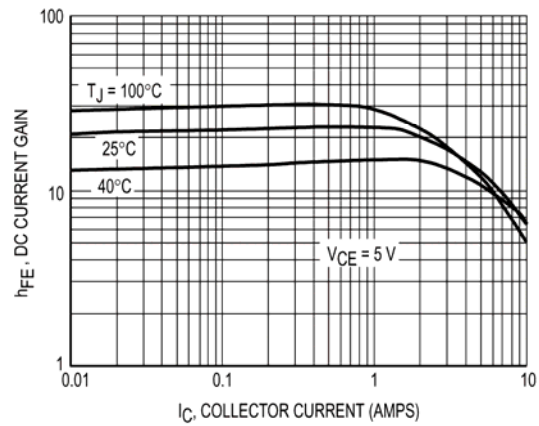
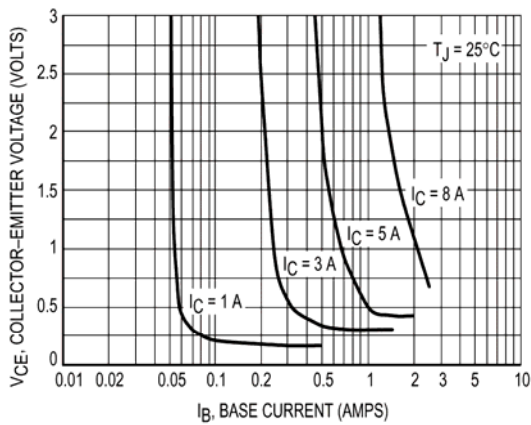
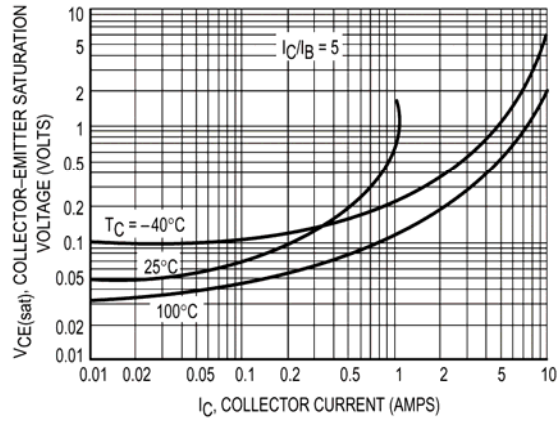
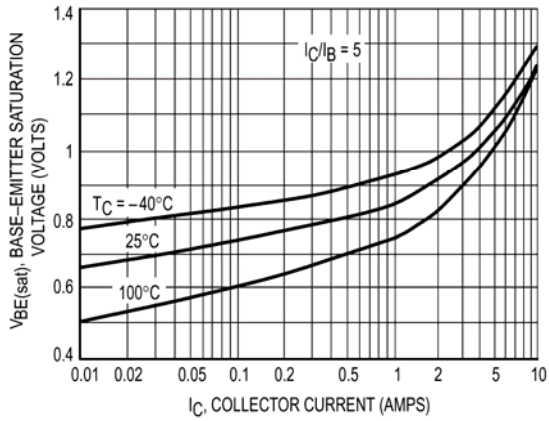
NPN Power Transistor 8.0 Amperes 400 Volts 2 Watts

TO-220



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	∅
G	.190	.110	2.29	2.79	
H	---	.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	
T	.230	.270	5.84	6.86	
U	----	.050	----	1.27	
V	.045	----	1.15	----	

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Ordering Information :

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

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