



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

MJE13002

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Capable of 1.25Watts of Power Dissipation.
- Collector-current 1.0A
- Collector-base Voltage 600V
- Operating and storage junction temperature range: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage 400 (b=1.0mAdc, b=0)		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage 600 (L=100uAdc, L=0)		Vdc	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (=100uAdc, l _c =0)	6.0		Vdc
Сво	Collector Cutoff Current (V _{CB} =600Vdc, I _E =0)		100	uAdc
l _{EBO}	Emitter Cutoff Current (V _{EB} =6.0Vdc, I _C =0)		100	uAdc

ON CHARACTERISTICS

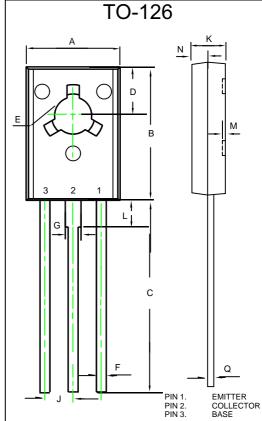
h _{FE(1)}	DC Current Gain			
	(⊱=100mAdc, V _{CE} =10Vdc)	8.0	60	
h _{FE(2)}	DC Current Gain			
. ,	(⊱=200mAdc, V _{CE} =10Vdc)	9.0	40	
h _{FE(3)}	DC Current Gain			
	(⊱=10mAdc, V _{CE} =10Vdc)	6.0		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
. ,	(է=200mAdc, ե=40mAdc)		0.8	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			
, , ,	(L=200mAdc, L=40mAdc)		1.1	Vdc

SMALL-SIGNAL CHARACTERISTICS

f _⊤	Transistor Frequency				
	(l _c =100mAdc, V _{cE} =10Vdc, f=1.0MHz)		5.0		MHz
t _F	Fall Time	V _{CC} =100V,I _C =1.0A,		0.5	uS
t _s	Storage Time	$I_{B1} = I_{B2} = 0.2A$		2.5	uS

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

NPN Silicon Plastic-Encapsulate Transistor



			•	IIV 5.	JAGE
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.291	0.307	7.40	7.80	
В	0.417	0.433	10.60	11.00	
С	0.602	0.618	15.30	15.70	
D	0.154	0.161	3.90	4.10	
E	0.118	0.126	3.00	3.20	
F	0.026	0.034	0.66	0.86	
G	0.046	0.054	1.17	1.37	
J	0.090TYP		2.290TYP		
K	0.098	0.114	2.50	2.90	
L	0.083	0.091	2.10	2.30	
M	0.000	0.012	0.00	0.30	
N	0.043	0.059	1.10	1.50	
Q	0.018	0.024	0.45	0.60	



Micro Commercial Components

Ordering Information:

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

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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.