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MJE13002

Features

- Halogen free available upon request by adding suffix "-HF" 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 CHARAC	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 6.0 (=100uAdc, l ₂ =0)			Vdc	
Ісво	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

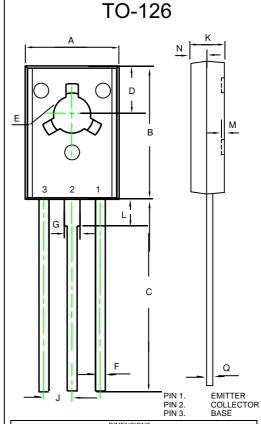
h _{FE(1)}	DC Current Gain			
	(⊱=100mAdc, V _{CE} =10Vdc)	8.0	60	
h _{FE(2)}	DC Current Gain			
	(⊱=200mAdc, V _{CE} =10Vdc)	9.0	40	
h _{FE(3)}	DC Current Gain			
	(⊱=10mAdc, V _{CE} =10Vdc)	6.0		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
. ,	(է=200mAdc, ե=40mAdc)		0.8	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			
	(l _c =200mAdc, l₃=40mAdc)		1.1	Vdc

SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequen				
	(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.	DAGE
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	



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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