

Micro Commercial Components



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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.

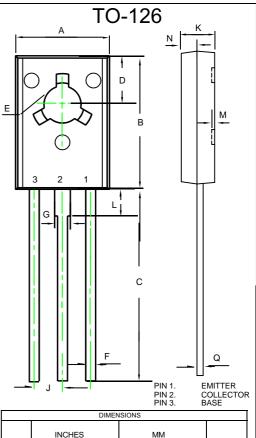
- Collector-current 1.5A .
- Collector-base Voltage 700V
- Operating and storage junction temperature range: -55°C to +150°C

Electrica	I Characteristic:	s @ 25°C Unless	Otherwi	se Spec	ified
Symbol	Paran	Min	Max	Units	
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter Bre	400		Vdc	
.,	$(l_c=10mAdc, l_B=0)$		700		
V _{(BR)CBO}	Collector-Base Brea (lc=1000uAdc, l=	700		Vdc	
$V_{(BR)EBO}$	Emitter-Base Break	9.0		Vdc	
сво	Collector Cutoff Cur (V _{CB} =700Vdc, I _E =		1000	uAdc	
сео	Collector Cutoff Cur (V _{CE} =400Vdc,I _B =0		500	uAdc	
I _{EBO}	Emitter Cutoff Curre (V _{EB} =9.0Vdc, I _C =0		1000	uAdc	
ON CHARAC	TERISTICS				
h _{FE(1)}	DC Current Gain				
	(b=0.5Adc, V _{CE} =5	8.0	40		
h _{FE(2)}	h _{FE(2)} DC Current Gain				
	(l _c =1.5mAdc, V _{ce} =	5.0			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (L=1000mAdc, I _B =250mAdc)			1.0	Vdc
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage				
	(L=1000mAdc, I _B =250mAdc)			1.2	Vdc
V_{BE}	Base-Emitter Voltag (t=2000mAdc)		3.0	Vdc	
SMALL-SIG	NAL CHARACTERISTIC	S			
f _⊤	Trans istor Frequency				
	(L=100mAdc, V _{CE} =10Vdc, f=1.0MHz)		5.0		MHz
t _F	Fall Time	V _{CC} =100V,I _C =1.0		0.5	uS
ts	Storage Time	A,I _{B1} =B2=0.2A		2.5	uS

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

NPN Silicon Plastic-Encapsulate Transistor

MJE13003A

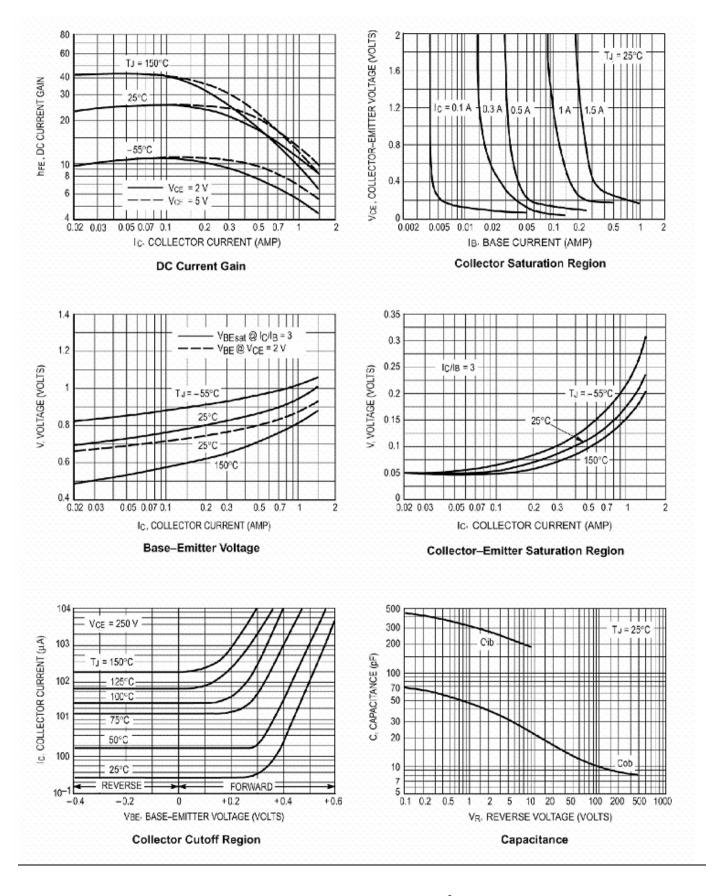


	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.291	0.307	7.40	7.80	
В	0.417	0.433	10.60	11.00	
С	0.602	0.618	15.30	15.70	
D	0.154	0.161	3.90	4.10	
Е	0.118	0.126	3.00	3.20	
F	0.026	0.034	0.66	0.86	
G	0.046	0.054	1.17	1.37	
J	0.090TYP		2.290TYP		
K	0.098	0.114	2.50	2.90	
L	0.083	0.091	2.10	2.30	
М	0.000	0.012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

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MJE13003A

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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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