

Micro Commercial Components



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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- 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
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

Electrica	<u>i characteristic</u>	<u>s @ ZJT UIIIEss</u>	<u>ulierwi</u>	<u>26 2her</u>	illeu			
Symbol	Parameter		Min	Max	Units			
OFF CHARACTERISTICS								
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage		400		Vdc			
	(I _c =10mAdc, I _B =0)							
V _{(BR)CBO}	Collector-Base Brea	akdown Voltage	700		Vdc			
	(l _c =1000uAdc, l _E =	0)						
V _{(BR)EBO}	Emitter-Base Breakdown Voltage		9.0		Vdc			
	(l _E =1000uAdc, l _c =	0)						
Сво	Collector Cutoff Current			1000	uAdc			
	(V _{CB} =700Vdc, I _E =	0)						
beo	EO Collector Cutoff Current			500	uAdc			
	(V _{CE} =400Vdc,I _B =0))						
I _{EBO}	Emitter Cutoff Current			1000	uAdc			
	(V _{EB} =9.0Vdc, I _C =0))						
ON CHARACTERISTICS								
h _{FE(1)}	DC Current Gain							
.,	(b=0.5Adc, V _{CE} =5	(と=0.5Adc, V _{CE} =5.0Vdc)		40				
h _{FE(2)}	DC Current Gain							
	(l _c =1.5Adc, V _{c=} =5Vdc)		5.0					
V _{CE(sat)}	Collector-Emitter Saturation Voltage							
	(L=1000mAdc, l _B =250mAdc)			1.0	Vdc			
V _{BE(sat)}	Base-Emitter Saturation Voltage							
. ,	(l _c =1000mAdc, l _B =	=250mAdc)		1.2	Vdc			
V _{BE}	Base-Emitter Voltage							
	(3.0	Vdc			
SMALL-SIGN	AL CHARACTERISTIC	S						
f _T	Transistor 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} =b ₂ =0.2A		2.5	uS			

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

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MJE13003D



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.087	.094	2.20	2.40			
A1	.042	.054	1.05	1.35			
В	.053	.065	1.35	1.65			
b	.020	.028	0.50	0.70			
b1	.028	.035	0.70	0.90			
С	.017	.023	0.43	0.58			
c1	.017	.023	0.43	0.58			
D	.250	.262	6.35	6.65			
D1	.205	.213	5.20	5.40			
Ш	.213	.224	5.40	5.70			
е	0.091TYP		2.300TYP				
e1	.177	.185	4.50	4.70			
L	.295	.311	7.50	7.90			

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Ordering Information :

Device	Packing	
Part Number-BP	Bulk;80pcs/Tube	

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

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