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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 1.0Watts of Power Dissipation.
- Collector-current 5A
- Collector-base Voltage 100V
- 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

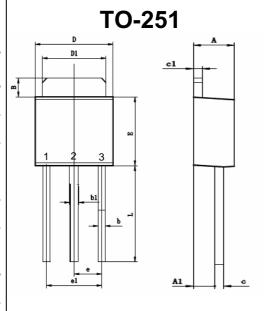
Symbol	Parameter	Min	Max	Units			
OFF CHARAC	OFF CHARACTERISTICS						
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=10mAdc, b=0)	80		Vdc			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100µAdc, I _E =0)	100		Vdc			
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100µAdc, I _C =0)	7.0		Vdc			
Сво	Collector Cutoff Current (V _{CB} =100Vdc, I _E =0)		1	μAdc			
I _{EBO}	Emitter Cutoff Current (V _{EB} =7.0Vdc, I _C =0)		1	μAdc			

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain			
	(I _C =1.0Adc, V _{CE} =1.0Vdc)	70	240	
h _{FE(2)}	DC Current Gain			
	(I _C =3.0Adc, V _{CE} =1Vdc)	40		
V _{CE(sat)}	Collector-Emitter Saturation Voltage			
` ´	(է=3000mAdc, l _в =150mAdc)		0.4	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	ation Voltage		
. ,	(I _C =3000mAdc, I _B =150mAdc)		1.2	Vdc
f _⊤	Transistor Frequency			
	(I _C =1.0Adc, V _{CE} =4Vdc)	20(Typ) MHz		MHz
C _{ob}	Collector Output Capacitance			
	(I _E =0, V _{CB} =10Vdc,f=1MHz)	80(Typ)		рF

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2.hFE(1) Range O:70-140; Y:120-240

NPN Silicon Plastic-Encapsulate Transistor



PIN 1. BASE PIN 2.4 COLLECTOR PIN 3. EMITTER

DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.087	.094	2.20	2.40			
A1	.042	.054	1.05	1.35			
В	.053	.065	1.35	1.65	ĺ		
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			
E	.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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