

Micro Commercial Components



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Features

- Capable of 25 Watts of Power Dissipation.
- Collector-current -5.0A and Collector-base Voltage -60V
- Operating and storage junction temperature range: -55°C to +150°C
 Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates PoHS Compliant _ Soc ordering information)
- RoHS Compliant. See ordering information)
 Epoxy meets UL 94 V-0 flammability rating
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Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units			
OFF CHARACTERISTICS							
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1.0mAdc, I _B =0)	-50		Vdc			
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =-1mAdc, I _E =0)	-60		Vdc			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =-0.1mAdc, I _C =0)	-5.0		Vdc			
I _{CBO}	Collector Cutoff Current (V _{CB} =-50Vdc, I _E =0)		-1.0	uAdc			
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5.0Vdc, I _C =0)		-1.0	uAdc			

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain (Note 2) (I _c =-1Adc, V _{CE} =-1Vdc)	70	240	
h _{FE(2)}	DC Current Gain $(I_c=-3Adc, V_{ce}=-1Vdc)$	30		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I_C =-3Adc, I_B =-150mAdc)	-0.2	-0.4	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I_c =-3Adc, I_B =-150mAdc)	-0.9	-1.2	Vdc
SMALL-SIG	NAL CHARACTERISTICS			
f _T	Transistor Frequency (I _C =-1Adc, V _{CE} =-4Vdc)	60		MHz
C _{ob}	Collector output capacitance $(1/2 - 40)(1 - 20) = 40000000000000000000000000000000000$	170(Typ)		PF

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2. h_{FE(1)}Classification O : 70-140, Y : 120-240

 $(V_{CB}=-10V, I_{E}=0, f=1MHz)$

TO-220AB

2SA1012

PNP

Plastic-Encapsulate

Transistor



		DIME	INSIONS		
	INCHES MM		MN		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
К	.500	.580	12.70	14.73	
Г	.045	.060	1.14	1.52	
Ν	.190	.210	4.83	5.33	
Ø	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		

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Ordering Information :

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

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