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TIP47

Features

- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Silicon Power NPN transistors in TO-220 package.
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

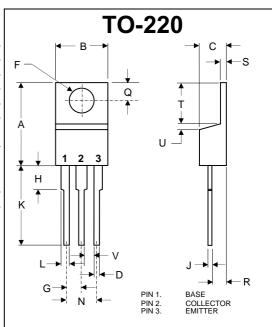
Maximum Ratings

Symbol	Rating	Rating	Unit	
V _{CBO}	Collector-Base Voltage	350	V	
V_{CEO}	Collector-Emitter Voltage	250	V	
V_{EBO}	Emitter-Base Voltage	5.0	V	
l _C	Collector Current	1.0	Α	
l _{см}	Collector Current Peak	2.0	Α	
l _B	Base Current 0.6		Α	
P_D	Collector power dissipation(T _C =25°C)	40	W	
	Collector power dissipation(T _A =25°C)	2		
T_J	Junction Temperature	-65 to +150	၀	
T_{STG}	Storage Temperature	-65 to +150	°C	
R_{thjc}	Thermal Resistance, Junction to Case	3.125	°C/W	
R_{thja}	Thermal Resistance, Junction to Ambient	62.5	°C/W	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage Ic=30mA;I _B =0	250		Vdc
$V_{CE(Sat)}$	Collector-Emitter Saturation Voltage Ic=1A;I _B =0.2A	1.0	-	Vdc
$V_{BE(ON)}$	Base-Emitter On Voltage 1.5 Ic=1A;V _{CE} =10V			Vdc
Ices	Collector Cutoff Current (V _{CE} =350Vdc,V _{BE} =0)		1.0	mAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, I _C =0)		1.0	mAdc
I _{CEO}	Collector Cutoff Current (V _{CE} =150Vdc;I _B =0)		1.0	mAdc
h _{FE-1}	DC Current Gain (l _c =0.3Adc, V _{cE} =10Vdc)	30	150	
h _{FE-2}	DC Current Gain (L=1.0Adc, V _{CE} =10Vdc)	10		
f⊤	Current Gain-Bandwidth Product (Ic=0.1Adc;V _{CE} =10Vdc)	10	MHz	

NPN Silicon Power Transistors



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.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		
K	.500	.580	12.70	14.73		
L	.045	.060	1.14	1.52		
N	.190	.210	4.83	5.33		
Q	.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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