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BUT11A

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
- High voltage, high speed NPN power transistors.
- With TO-220 package
- Intended for use in converters, inverters, switching regulators, motor control systems.
- Mounting Torgue: 5 in-lbs Maximum

Maximum Ratings

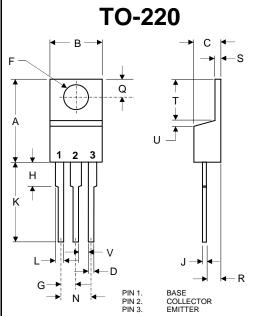
Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	450	V
V_{CBO}	Collector-Base Voltage	1000	V
V_{EBO}	Emitter to Base Voltage	9.0	V
I _{CP}	Peak Collector Current	10	Α
l _c	Collector Current	5.0	Α
Pc	Collector power dissipation	100	W
T_J	Junction Temperature	-55 to +150	οС
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (L=100mAdc, L=0)	450		Vdc	
СВО	Collector-Base Cutoff Current 1.0 $(V_{CB}=1000Vdc,I_{E}=0)$		mAdc		
l _{EBO}	Emitter-Base Cutoff Current 10 mA $(V_{EB}$ =9.0Vdc, I_{C} =0)				
ON CHARACTERISTICS					
h _{FE-1}	Forward Current Transfer ratio (b=5.0mAdc, Voe=5.0Vdc)	10	35		
h _{FE-2}	Forward Current Transfer ratio (b=500mAdc, V _{CE} =5.0Vdc)	10	35		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (l_c =2.5Adc, l_B =0.5Adc)		1.5	Vdc	
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (L=2.5Adc, I _B =0.5Adc)		1.3	Vdc	

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

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

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

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