

Micro Commercial Components

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BDW93B

Features

- Halogen free available upon request by adding suffix "-HF" Intended for use in power linear and switching applications
- 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

Maximum Patings

Mounting Torgue: 5 in-lbs Maximum

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage 80		V
V_{CBO}	Collector-Base Voltage 80		V
V_{EBO}	Emitter-Base Voltage	5.0	V
l _{CP}	Peak Collector Current	15	Α
lc	Collector Current	12	Α
Pc	Collector power dissipation	80	W
TJ	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Hectrical Characteristics @25°C Unless Otherwise Specified Symbol **Parameter** Min Max

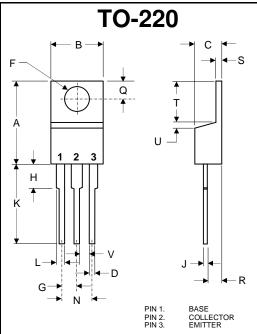
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OFFICHARA	CTENSTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=100mAdc, b=0)	80		Vdc
Сво	Collector-Base Cutoff Current $(V_{CB}=80Vdc,I_{E}=0)$		0.1	mAdc
I _{EBO}	Emitter-Base Cutoff Current		2.0	mAdc

ONCHARACTERISTICS

h _{FE-1}	Forward Current Transfer ratio (ξ =3.0Adc, V_{CE} =3.0Vdc)	1000		
h _{FE-2}	Forward Current Transfer ratio $(\xi=5.0\text{Adc}, V_{\text{CE}}=3.0\text{Vdc})$	750	20000	
h _{FE-3}	Forward Current Transfer ratio (b=10Adc, Vc=3.0Vdc)	100		
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage (b=5.0Adc, b=20mAdc)		2.0	Vdc
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage (ξ =10Adc, ξ =100mAdc)		3.0	Vdc
V _{BE(sat)-1}	Base-Emitter Saturation Voltage (b=5.0Adc,le=20mAdc)		2.5	Vdc
V _{BE(sat)-2}	Base-Emitter Saturation Voltage (b=10Adc,l₀=100mAdc)		4.0	Vdc

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

NPN Silicon Power Transistors



		DIME	ENSIONS		
	INC	HES	1	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; 1 Kpcs/Box

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

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