



PINGWEI ENTERPRISE

PS20U45BCT THRU PS20U150BCT

20.0AMPS. SCHOTTKY BARRIER RECTIFIERS

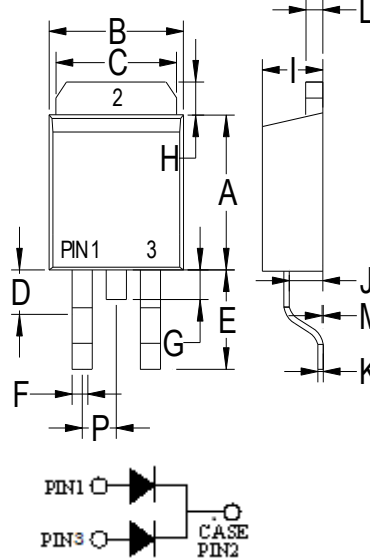
FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed
260°C /10seconds, 0.25"(6.35mm)from case.

MECHANICAL DATA

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Mounting position: any

TO-263



Dim	Min	Max
A	.323 (8.20)	.348 (8.85)
B	.394 (10.0)	.413 (10.5)
C	.394 (10.0)	.402 (10.2)
D	.077 (1.95)	.100 (2.55)
E	.204 (5.17)	.227 (5.77)
F	.027 (0.68)	.037 (0.94)
G	--	.067 (1.70)
H	.046 (1.17)	.053 (1.34)
I	.175 (4.44)	.191 (4.86)
J	.100 (2.54)	.110 (2.79)
K	.014 (0.35)	.025 (0.64)
L	.047 (1.20)	.055 (1.40)
M	.000 (0.00)	.010 (0.25)
P	.095 (2.41)	.105 (2.67)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	SYM BOL	PS20 U45 BCT	PS20 U60 BCT	PS20 U100 BCT	PS20 U120 BCT	PS20 U150 BCT	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45	60	100	120	150	V
Maximum RMS Voltage	V_{RMS}	32	42	70	84	105	V
Maximum DC blocking Voltage	V_{DC}	45	60	100	120	150	V
Maximum Average Forward Rectified Current at $T_C = 100^\circ C$ <i>Total device</i>	$I_{F(AV)}$	20.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) <i>Per leg</i>	I_{FSM}	175.0					A
Maximum Forward Voltage at 10.0A DC	V_F	0.50	0.60	0.70	0.83	0.90	V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at rated DC blocking voltage @ $T_A = 100^\circ C$	I_R	0.25 100.0		0.2 80.0			mA
Typical Junction Capacitance (Note 1)	C_J	700		300			pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.0					$^\circ C/W$
Storage Temperature	T_{STG}	-55 to +150					$^\circ C$
Operation Junction Temperature	T_J	-55 to +150					$^\circ C$

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Case Mounted on Heatsink

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