

Bridge Rectifier

Reverse Voltage - 50V to 1000V

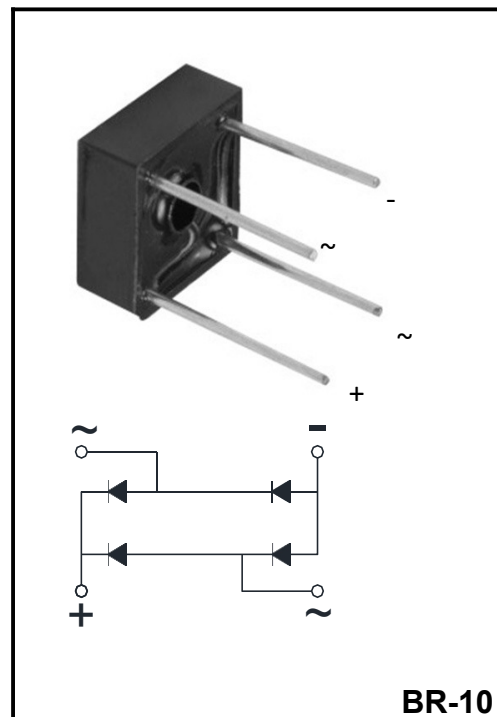
Forward Current - 10 A

FEATURES

- ♦UL recognition, file #E230084
- ♦Suitable for printed circuit board or chassis mounting
- ♦Compact construction
- ♦High surge current capability
- ♦Solder dip 275°C max. 7s, per JESD 22-B106

MECHANICAL DATA

- ♦Case:BR-10
- ♦Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- ♦Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- ♦Polarity: As marked on body



Maximum Ratings @ Ta = 25°C unless otherwise noted

Parameter	Symbols	BR10005W	BR1001W	BR1002W	BR1004W	BR1006W	BR1008W	BR1010W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	00	400	600	800	1000	V
Maximum Average Forward Current Ta =40°C	$I_{F(AV)}$	10							A
Peak surge forward current, 8.3mssingle half sine-wave superimposed on rated load	I_{FSM}	220							A
Rating for fusing1ms<t<8.3msTj=25°C, Rating of per diode	I^2t	200							A ² s
Maximum Forward Voltage per Diode at IF= 5 A	V_F	1.0							V
Maximum instantaneous forward voltage drop per diode VRM=VRRM	I_{RRM}	10							μA
Junction to ambientthermalresistance, without heatsink	$R_{\theta JA}$	17							°C/W
Storage Temperature	T_{stg}	-55 ~ 150							°C
Openrating junction Temperature	T_j	-55~+150							°C

Characteristics (Typical)

FIG1:Io-Tc Curve

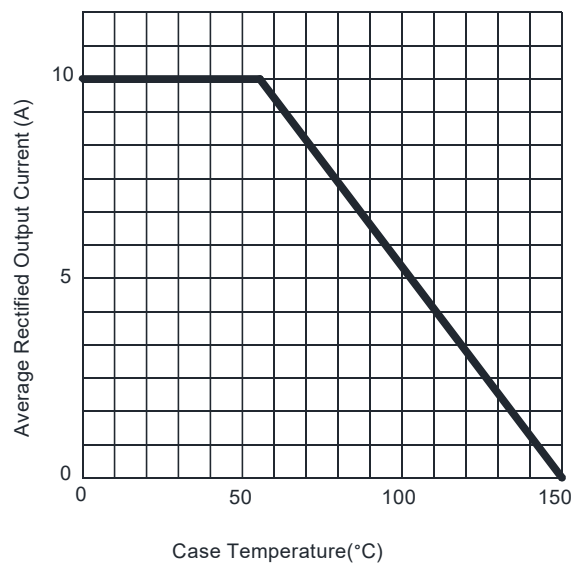


FIG2: Surge Forward Current Capability

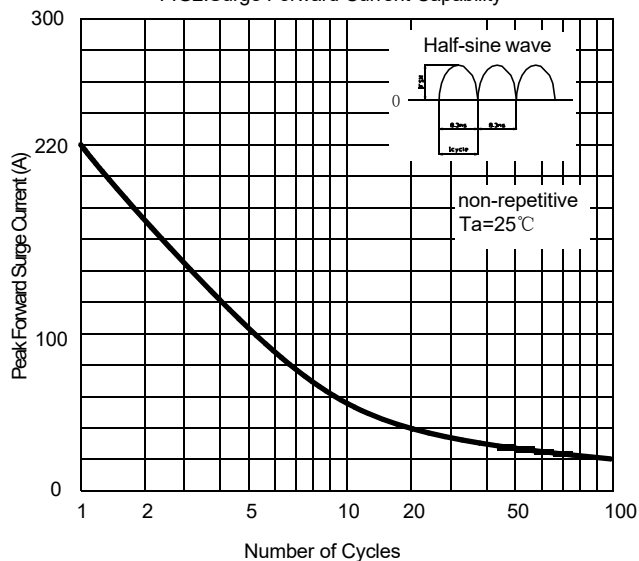


FIG3: Instantaneous Forward Voltage

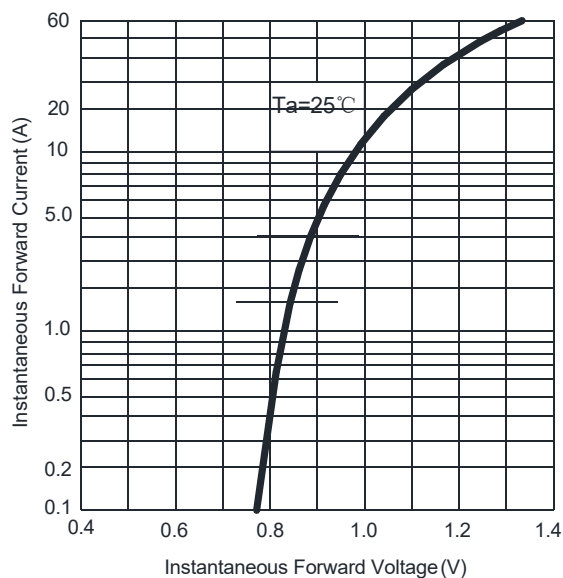
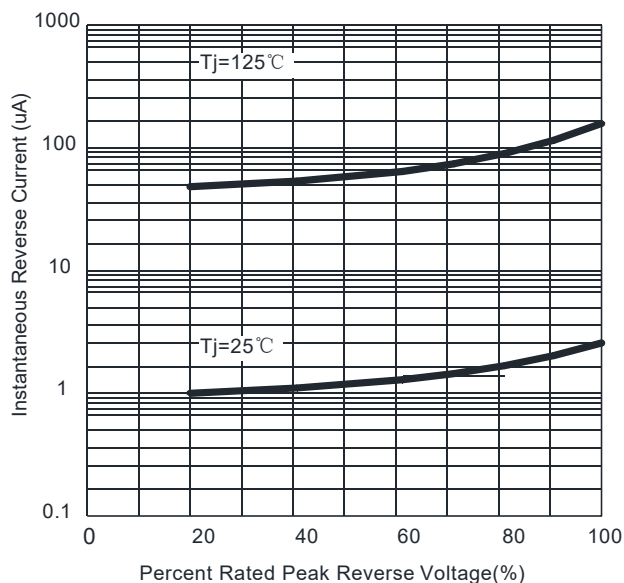
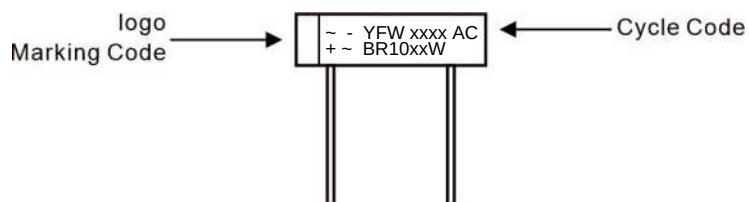


FIG4: Typical Reverse Characteristics



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
BR-10	bulk	200PCS/Box 2000PCS/Carton

Package Dimensions

BR-10

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	18.54	19.58	0.72	0.77
B	12.2	13.2	0.48	0.51
C	6.35	7.6	0.25	0.29
D	15.0	/	0.59	/
E	1.2	1.3	0.04	0.05
F	3.8	4.2	0.14	0.16

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