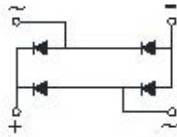
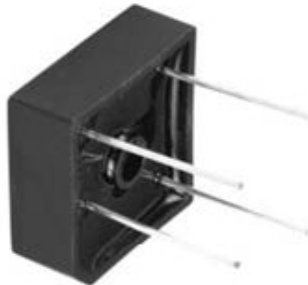


BR25005W THRU BR2510W Bridge Rectifiers

RoHS
COMPLIANT



Features

- UL recognition, file #E230084
Universal 3-way terminals: snap-on, wire wrap-around, or PCB mounting
- High surge current capability
- Low thermal resistance
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- Package:**BR-W
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals:**Tin plated leads, solderable per J-STD-002 and JESD22-B102 Suffix letter "W" added to indicate wire leads(e.g. BR2510W)

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	BR25005W	BR2501W	BR2502W	BR2504W	BR2506W	BR2508W	BR2510W
Device marking code									
Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, T _c =55 °C	I _o	A	25						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, T _a =25 °C	I _{FSM}	A	400						
Current Squared Time @1ms≤t≤8.3ms T _J =25 °C, Rating of per diode	I ² t	A ² S	660						
Storage Temperature	T _{stg}	°C	-55 ~+150						
Junction Temperature	T _J	°C	-55 ~+150						
Dielectric Strength, Terminal s to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	T _{OR}	N m	2.0						

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR25005W	BR2501W	BR2502W	BR2504W	BR2506W	BR2508W	BR2510W
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =12.5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	10						

BR25005W THRU BR2510W

■ **Thermal Characteristics** ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	BR25005W	BR2501W	BR2502W	BR2504W	BR2506W	BR2508W	BR2510W
Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	$^{\circ}\text{C/W}$	2.1						

■ **Ordering Information** (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BR25005W~BR2510W	A1	Approximate 16.5	50	50	500	Paper Box

■ **Characteristics** (Typical)

FIG1:Io-Tc Curve

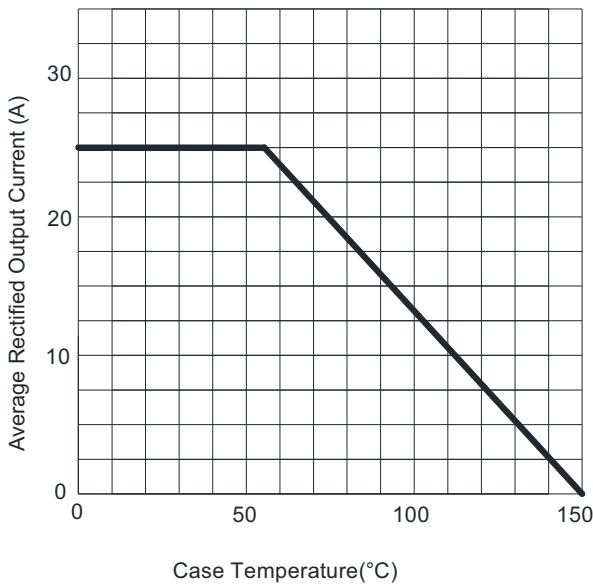


FIG2:Surge Forward Current Capability

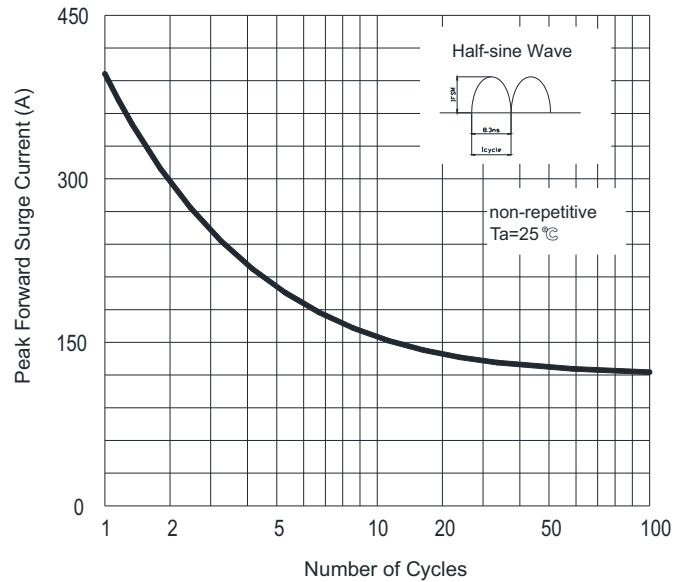


FIG3:Instantaneous Forward Voltage

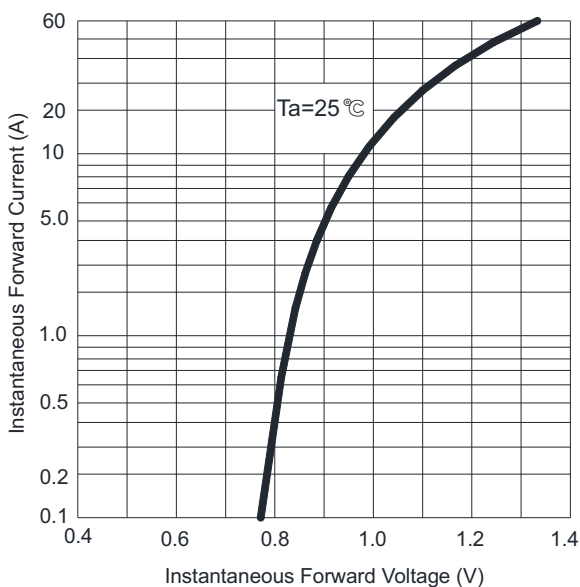
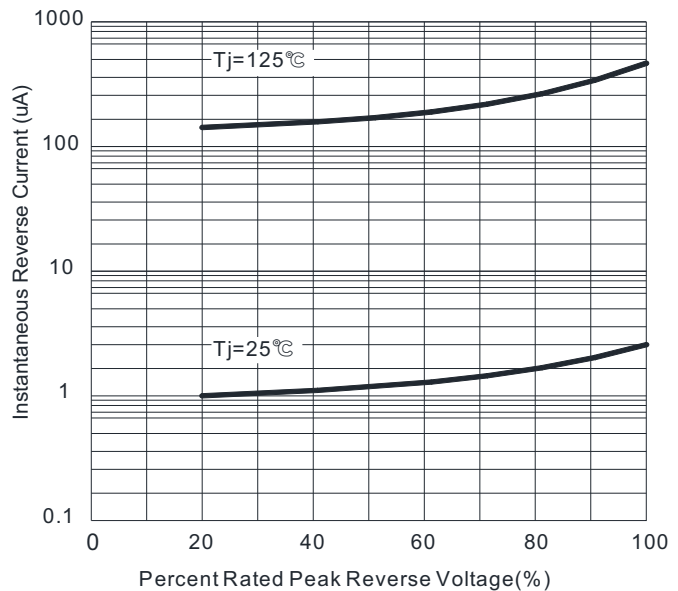
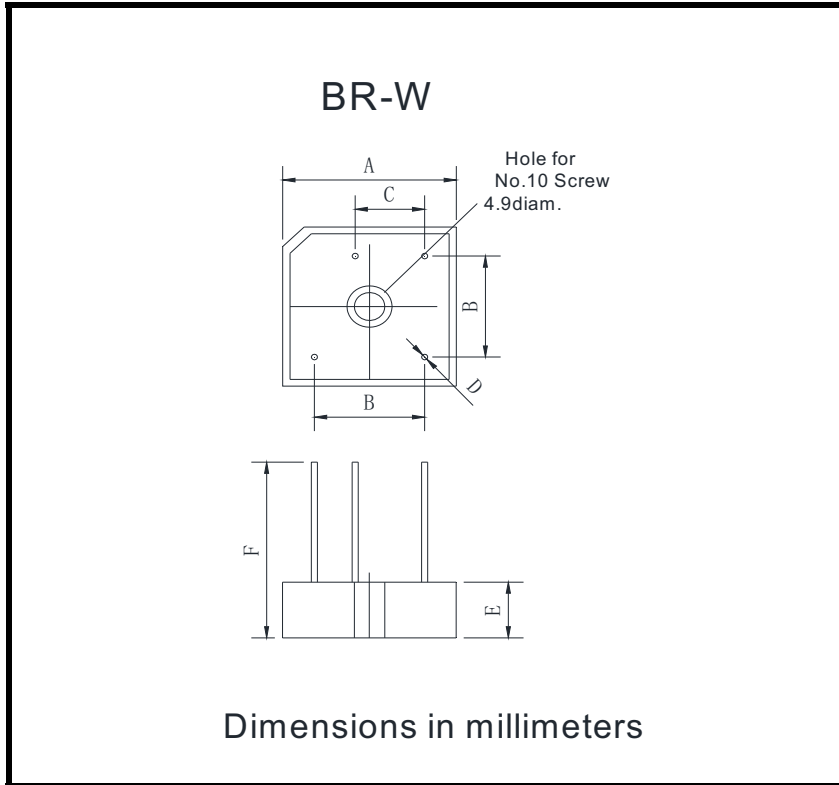


FIG4:Typical Reverse Characteristics



BR25005W THRU BR2510W

■ **Outline Dimensions**



BR-W		
Dim	Min	Max
A	28.2	28.8
B	17.1	19.1
C	10.4	12.4
D	0.95	1.05
E	10.8	11.2
F	30	/

BR25005W THRU BR2510W

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