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SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 25.0 Ampere

BR-W

FEATURES

High forward surge current capability.
Low thermal resistance.
High isolation voltage from case to lugs.
High temperature soldering guaranteed:
260°C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

Case: Molded plastic with Heatsink internally moun in the bridge encapsulation. Terminal: Plated 0.25" (6.35mm) lug. Polarity: Polarity symbols marked on case. Mounting: Thru hole for #10 screw, 20 in,- lbs. Torque Max. Weight: 1.02 ounce, 29gram.

MAXIMUM RATINGS AND ELECTRICAL

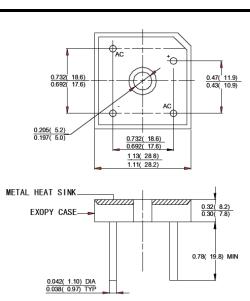
CHARACTERISTICS

Ratings at 25 $^{\circ}$ ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load. For canacitive load derate current by 20%

For capacitive load derate current by 20%										
PARAMETER		SYMBOL	BR 25005W	BR 2501W	BR 2502W	BR 2504W	BR 2506W	BR 2508W	BR 2510W	UNIT
Maximum Repetitive Peak Revere Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at Tc=55°C (Note1, 2)		I _(AV)	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	300							Amps
Rating for Fusing(t<8.3ms)		I2T	373							A ² s
Maximum Instantaneous Forward Voltage at12.5A		VF	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	T A =25 ℃	- I _R	5.0							μAmps
	Ta=150℃		0.5							mAmps
Isolation Voltage from case to lug		V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1,2)		Rejl	2.0							℃W
Operating Temperature Range		TJ	-65 to +150							°C
Storage Temperature Range		Тѕтс	-65 to +150							°C
1- Unit mounted on 9"	x3.5"x4.6" thick (23x	9×11.8mm)	Al. finned p	late.						·

1- Unit mounted on 9"x3.5"x4.6" thick (23x9x11.8mm) Al. finned plate.

2- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screws.



Dimensions in inches and (millimeters)

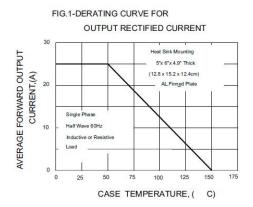
BR25005W THRU

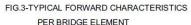
BR2510W

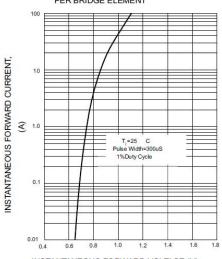
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RATINGS AND CHARACTERISTIC CURVES

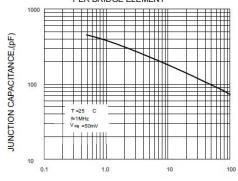






INSTANTANEOUS FORWARD VOLTAGE,(V)



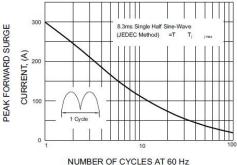


Note: Specifications are subject to change without notice.

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

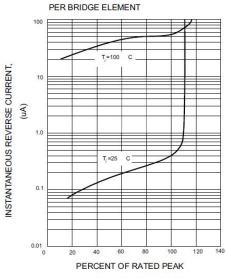
BR2510W

BR25005W THRU



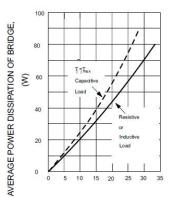
CHARACTERISTICS

FIG.4-TYPICAL REVERSE



REVERSE VOLTAGE,(%)

FIG.6-MAXIMUM POWER DISSIPATION



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