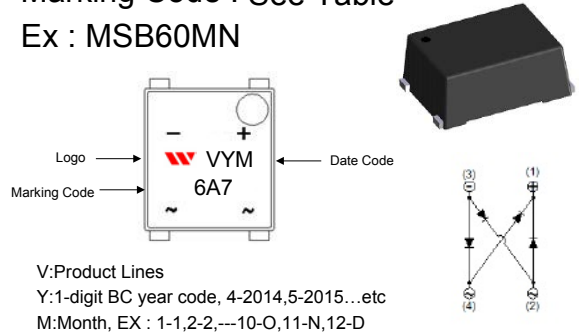


6.0A Single Phase Glass passivated Bridge Rectifiers - 50V~1000V

PRIMARY CHARACTERISTICS	
V_{RRM}	50V~1000V
I_o	6.0A
V_F	1.1V
I^2T	106A ² S
$T_{J,Max}$	150°C

MSBL PACKAGE

Marking Code : See Table
Ex : MSB60MN



FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,MSBL
- Polarity : Shown above
- Epoxy : UL94V-0 rated flame retardant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MSB60AN	MSB60BN	MSB60DN	MSB60GN	MSB60JN	MSB60KN	MSB60MN	UNIT
Marking Code		6A1	6A2	6A3	6A4	6A5	6A6	6A7	
Maximum Recurrent 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	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=40^\circ C$	$I_{(AV)}$	6.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC .Method)	I_{FSM}	160							A
Maximum Forward Voltage at 3.0A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^\circ C$ @ $T_J=125^\circ C$	I_R	10 500							μA
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	106							A ² s
Typical Thermal Resistance to Ambient	$R_{\theta JA}$	55							°C/W
Typical Thermal Resistance to Case	$R_{\theta JC}$	10							
Typical Thermal Resistance to Lead	$R_{\theta JL}$	15							
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

6.0A Single Phase Glass passivated Bridge Rectifiers - 50V~1000V

FIG.1-FORWARD CURRENT DERATING CURVE

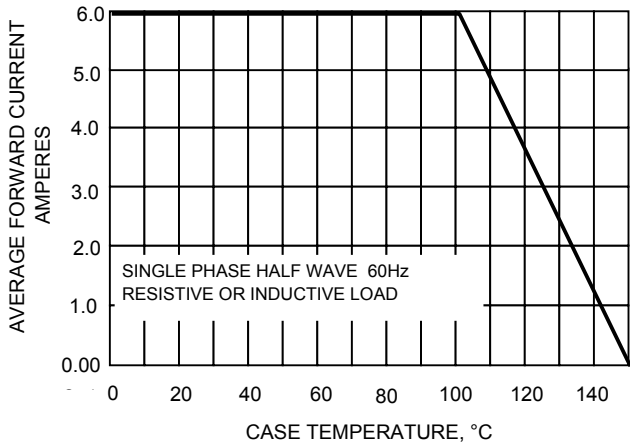


FIG.2-MAXIMUM FORWARD SURGE CURRENT

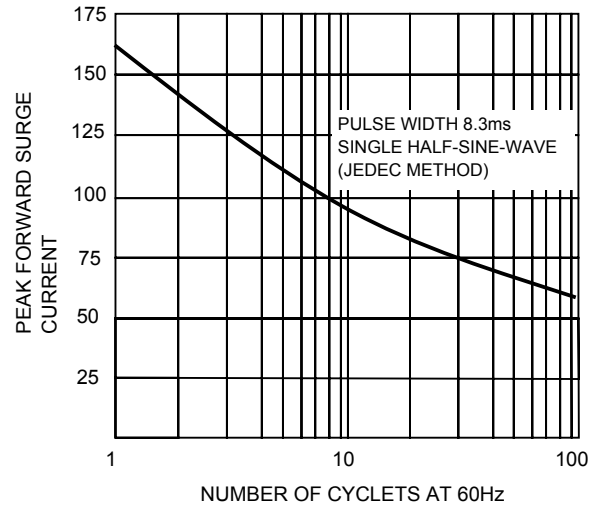


FIG.3-TYPICAL FORWARD CHARACTERISTICS

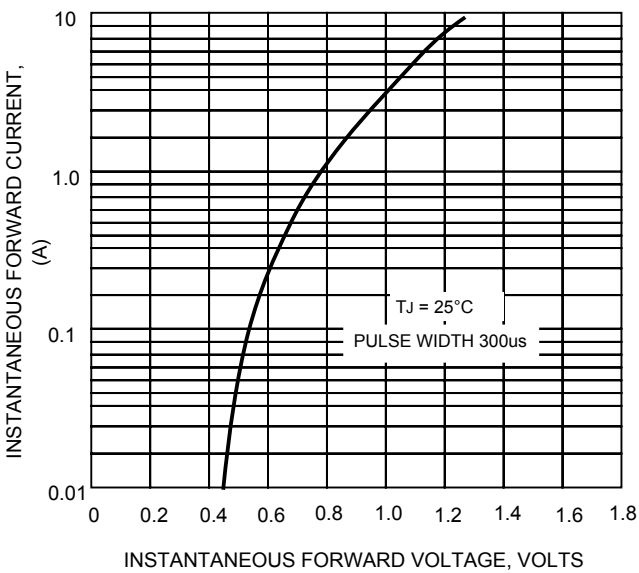
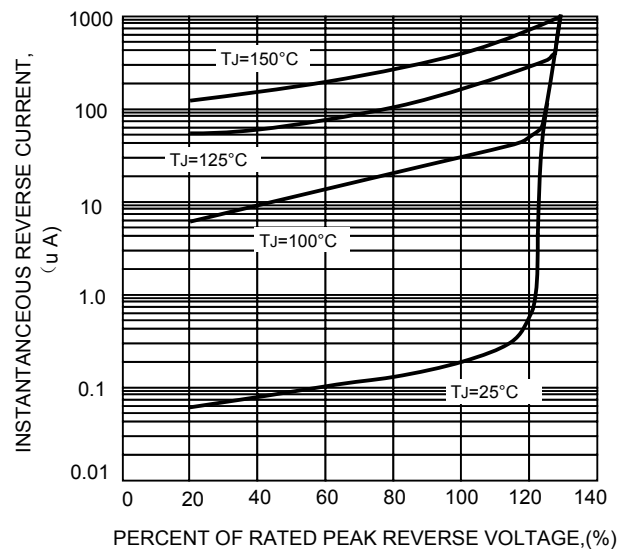
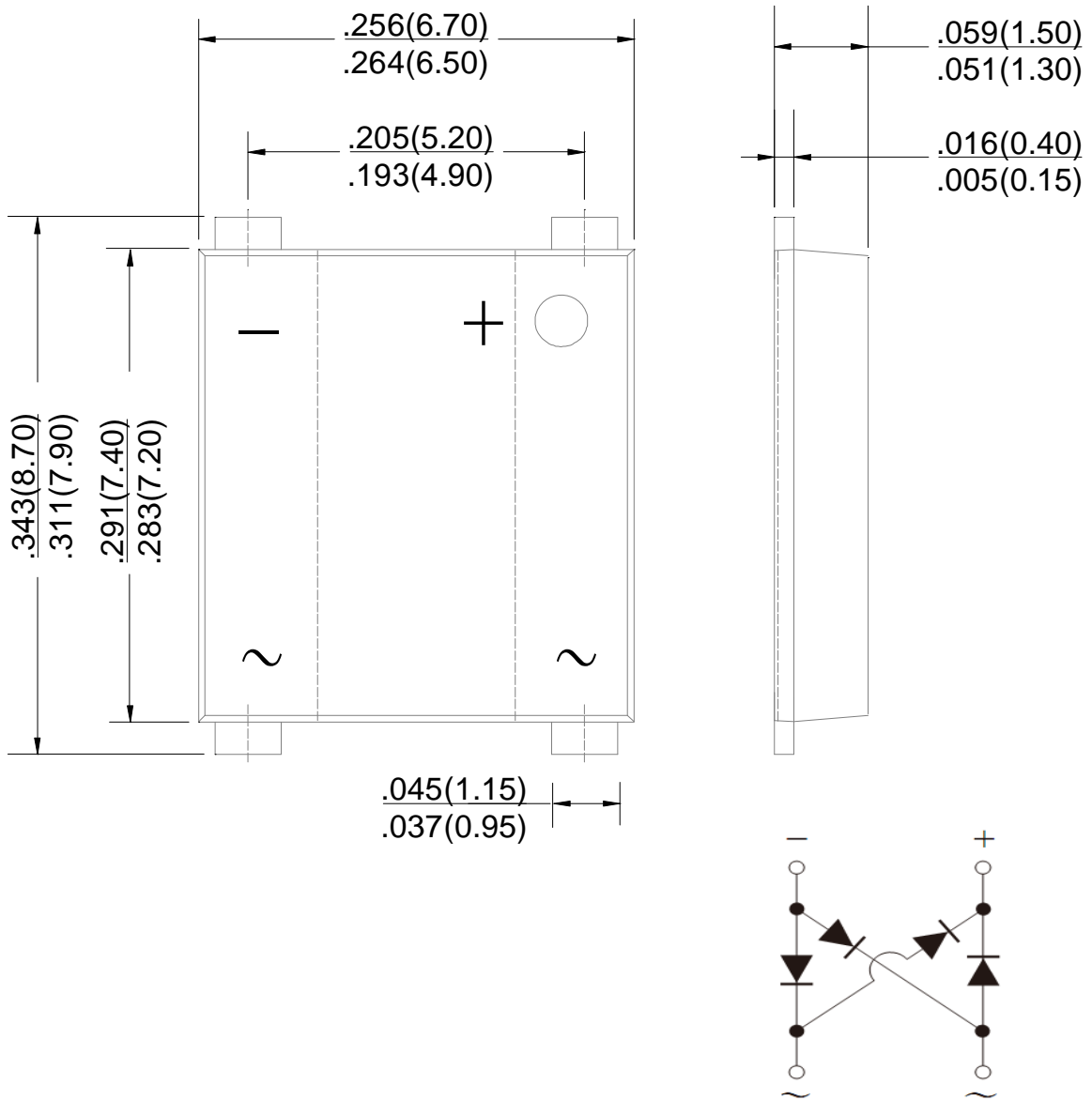


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Outline Drawing

MSBL



Dimensions in inches and (millimeters)

Rev.A

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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