

PRIMARY CHARACTERISTICS

V_{RRM}	50V,100V,200V,400V 600V,800V,1000V
$I_{F(AV)}$	1.0A
V_F	0.95V
$T_{J,Max}$	150°C

FEATURES

- Ideal for printed circuit board
- Glass passivated chip
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation
- High temperature soldering guaranteed:
260°C / 10 seconds / 0.375" lead length
at lbs tension
- PD : 1.56W
- Moisture Sensitivity Level 1

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

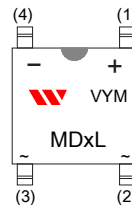
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

RATINGS		SYMBOL	MD1L	MD2L	MD3L	MD4L	MD5L	MD6L	MD7L	UNIT
Marking Code			MD1L	MD2L	MD3L	MD4L	MD5L	MD6L	MD7L	
Pepetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum Alternating Input Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum Average Forward Rectified Current on aluminum substrate		I _{F(AV)}	1.0							Amps
Rectified Current on glass-epoxy P.C.B.			0.8							
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	30.0							Amps
Rating for fusing (t<8.3ms)		I ² t	3.5							A ² sec
Typical Thermal Resistance	junction to case	R _{θJC}	20							°C / W
	junction to lead	R _{θJL}	25							
	on aluminum Substrate	R _{θJA}	62.5							
	on glass-epoxy P.C.B.		80							
Storage and Operating Junction Temperature Range		T _{stg} ,T _j	-55 to +150							°C

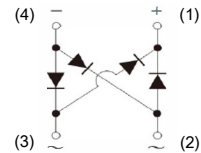
CHARACTERISTICS	SYMBOL	MD1L	MD2L	MD3L	MD4L	MD5L	MD6L	MD7L	UNIT
Maximum Forward Voltage Range at 0.4A DC	V _F	0.95							Volts
Maximum Forward Voltage Range at 0.8A DC		1.05							
Maximum Reverse Current at @TA=25°C	I _R	5.0							µAmps
Rated DC Blocking Voltage @TA=125°C		100.0							

MD-L PACKAGE

Marking :

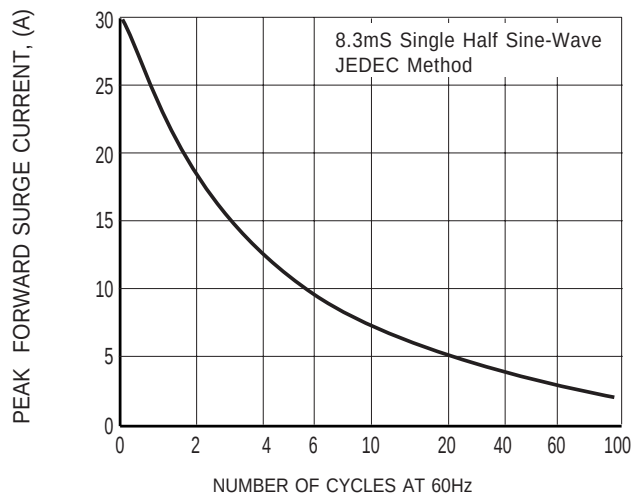


V:Product Lines
Y:1-digit BC year code, 4-2014,5-2015...etc
M:Month, EX : 1-1,2-2,---10-O,11-N,12-D
x :1,2,3,4,5,6,7

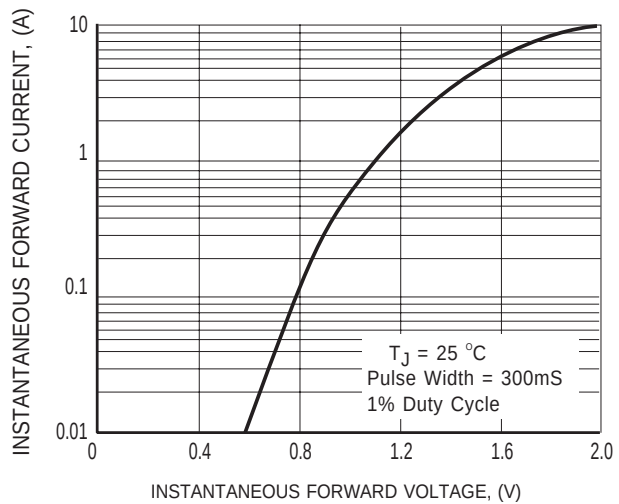


MECHANICAL DATA

- Case : Molded plastic,MD-L
- Polarity : Shown above
- Terminals :Plated terminals,
solderable per MIL-STD-750,Method
2026
- Epoxy : UL94-V0 rated flame
retardant



**FIG. 1 - MAXIMUM NON-REPETITIVE
FORWARD SURGE CURRENT**



**FIG. 2 TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS**

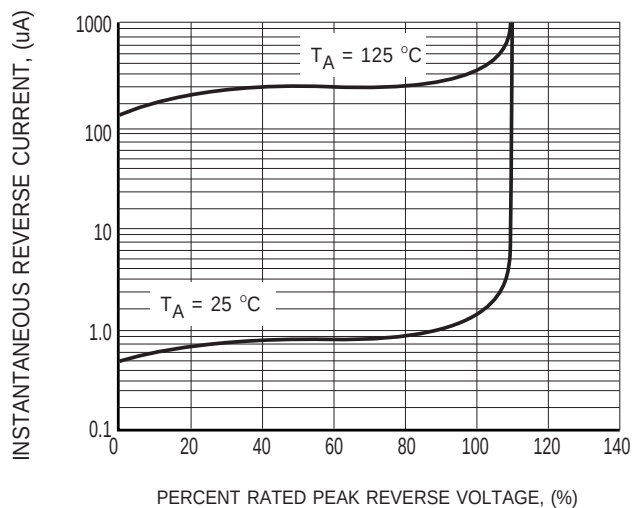
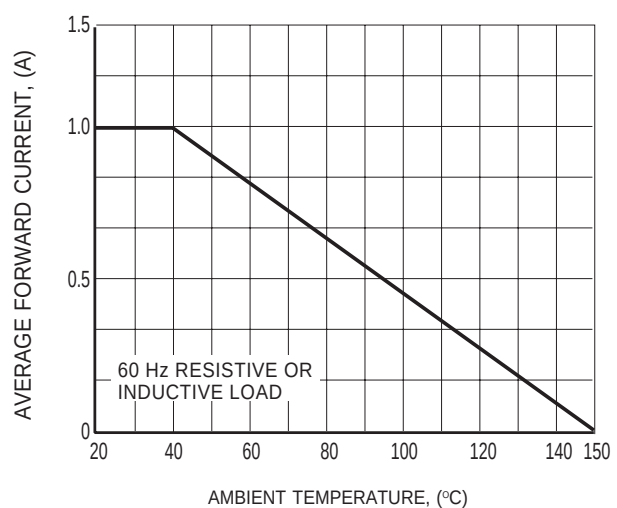


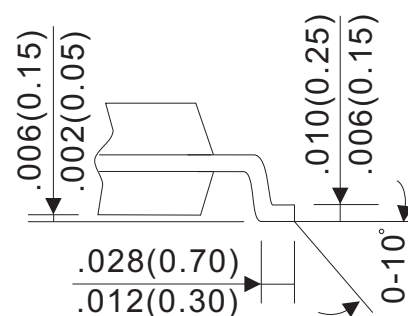
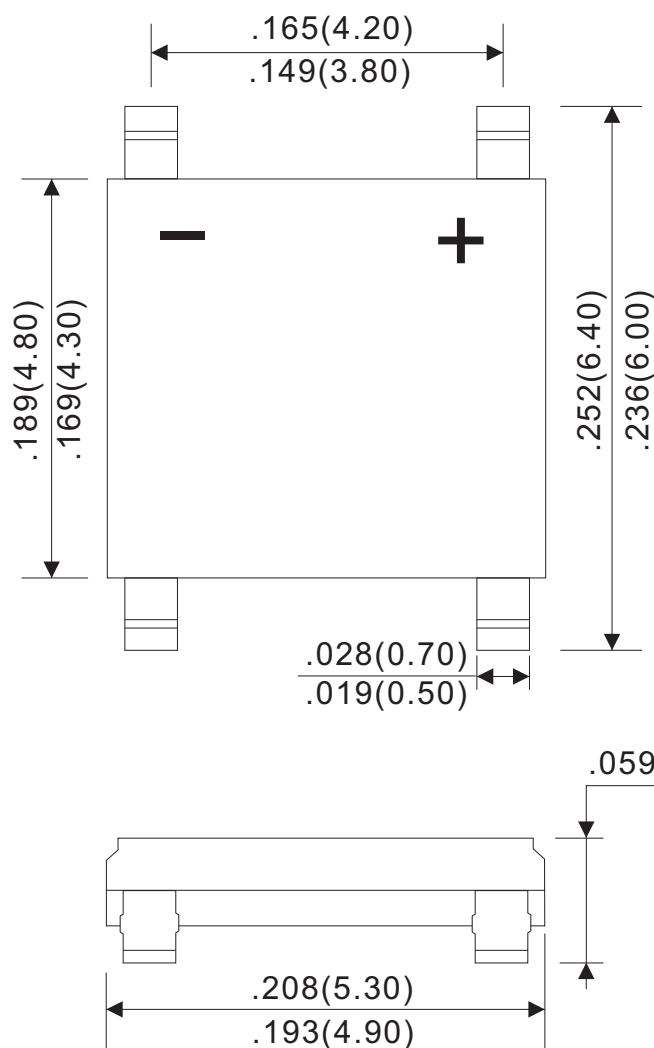
FIG. 3 TYPICAL REVERSE CHARACTERISTICS



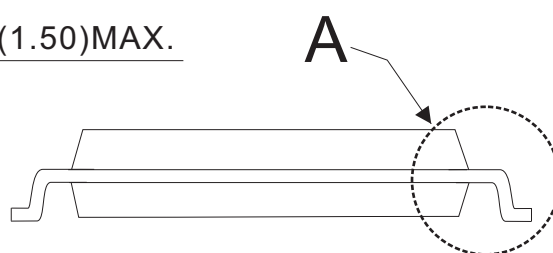
**FIG. 4 TYPICAL FORWARD CURRENT
DERATING CURVE**

Outline Drawing

MD-L

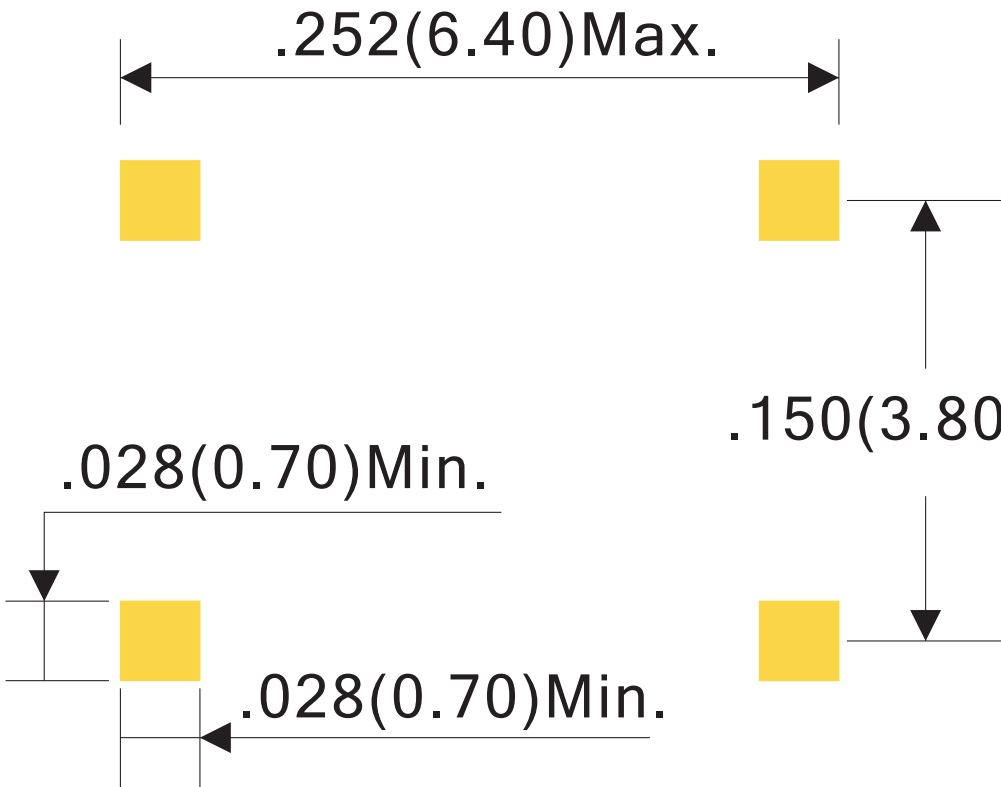


DETAIL "A", SCALE=20/1



Dimensions in inches and (millimeters)

Rev.B

Suggested Soldering Pad Layout	MD-L
 Dimensions in inches and (millimeters)	
RevA	

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ H ⁽²⁾ -WS	Tape&Reel: 5 Kpcs/Reel

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

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

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