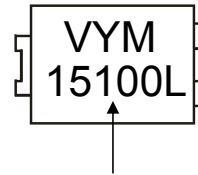


15A Surface Mount Schottky Barrier Rectifier - 100V
PRIMARY CHARACTERISTICS

V_{RRM}	100V
I_O	15A
$V_F@I_F=2A(TYP)$	0.45V
$T_{J,Max}$	150°C

FEATURES

- Low Forward Voltage Drop
- Low leakage current
- High Forward Surge Capability
- Excellent High Temperature Stability
- Moisture Sensitivity Level 1

TO-277B
PACKAGE
Body Marking Example


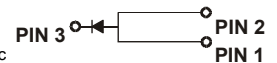
Marking Code



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



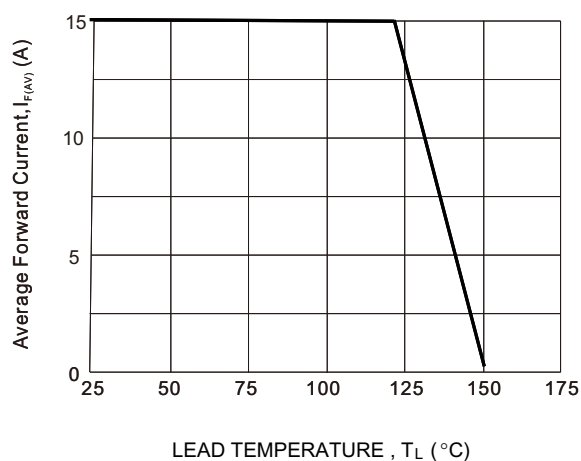
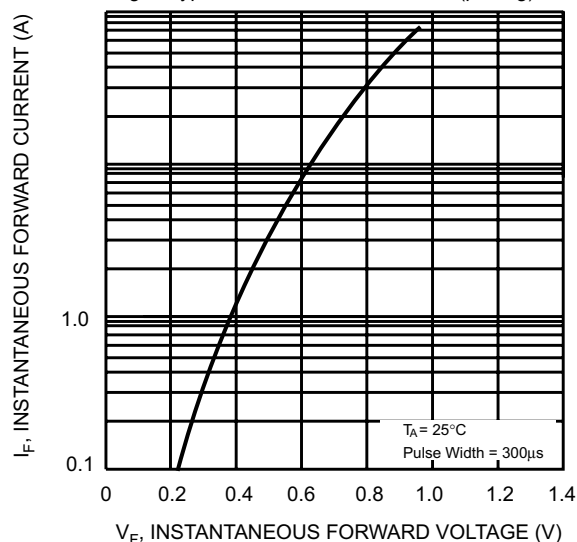
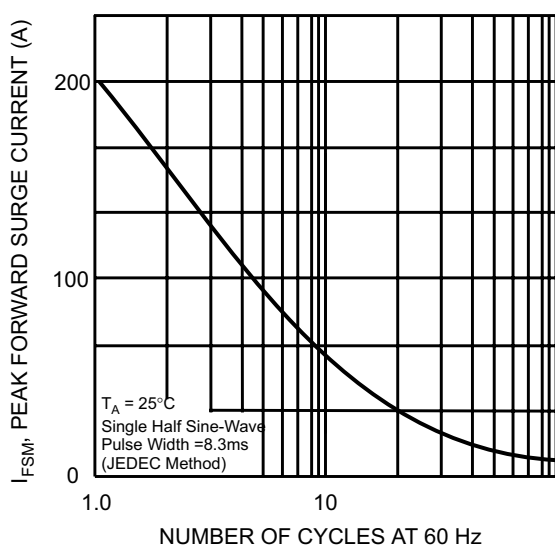
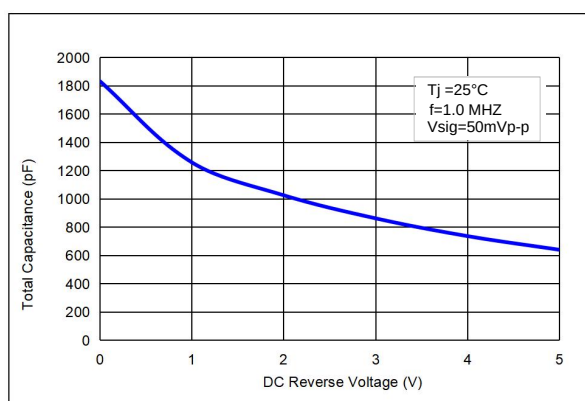
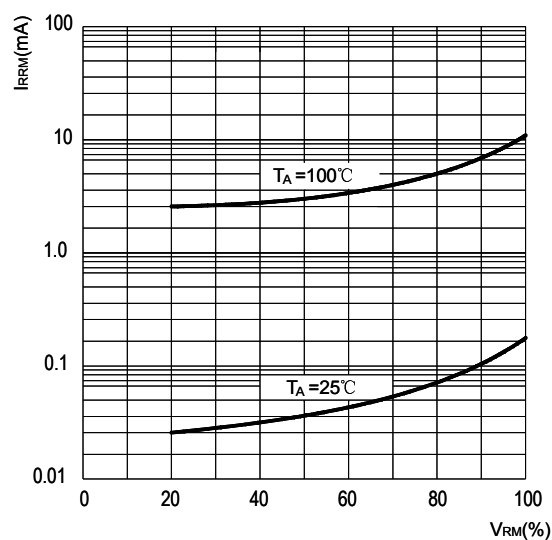
HEAT SINK

MECHANICAL DATA

- Case : Molded plastic,TO-277B
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

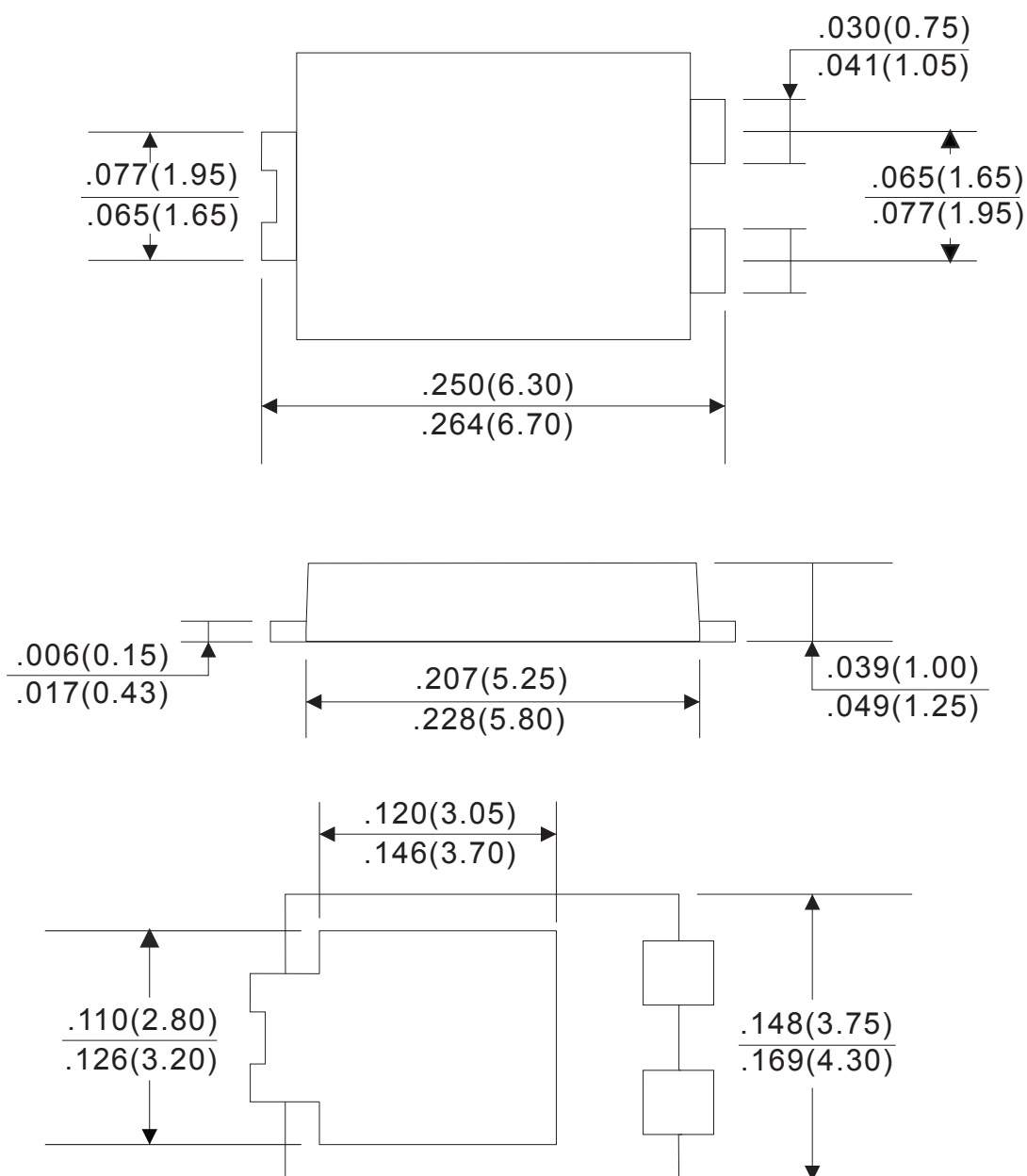
Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	MBR15100LPS	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC blocking voltage	V_{DC}	100	V
Maximum average forward rectified current	I_F	15	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200	A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^{\circ}C$ $I_F=15A @ 25^{\circ}C$	V_F	0.45 Typ. 0.75 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.3 20	mA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	80 6	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		15100L	

15A Surface Mount Schottky Barrier Rectifier - 100V
Typical Rating and Characteristics Curves
Fig.1 - Forward Current Derating Curve

Fig. 2 Typical Forward Characteristics (per leg)

Fig. 3 Maximum Peak Forward Surge Current (per leg)

Fig4: Typical Reverse Characteristics


Outline Drawing

TO-277B



Dimensions in inches and (millimeters)

Rev.B

Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
MBR15100L-T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	15100L	Tape&Reel: 5 Kpcs/Reel

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

(2) Packing code suffix "G" for RoHS product : Packing code Suffix "H" for halogen free product
All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals

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

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device

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