

PRIMARY CHARACTERISTICS

V_{RRM}	60V
I_O	10A
V_F	0.52V
$T_{J,Max}$	150°C

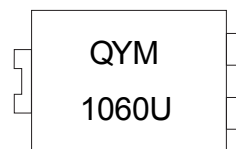
FEATURES

- Extremely Low VF
- Low Stored Charge, Majority Carrier Conduction
- Low Power LOSS/HIGH Efficiency
- Moisture Sensitivity Level 1

TO-277B

PACKAGE

Marking : 1060U



Q: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



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 And Electrical Characteristic

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

Parameter	SYMBOLS	MBR1060ULPS	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current at $T_L=100^{\circ}C$	$I_{(AV)}$	10.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	175.0	A
Maximum instantaneous forward voltage at 2.0A at 10.0A	V_F	0.40 0.55	V
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=125^{\circ}C$	I_R	0.5 50	mA
Typical thermal resistance	R_{qJA}	60.0	°C/W
Operating junction temperature range	T_J	-55 to +150	°C
Storage temperature range	T_{STG}	-55 to +150	°C



Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

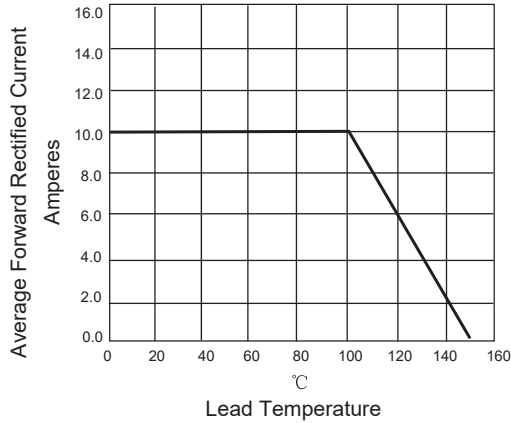


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

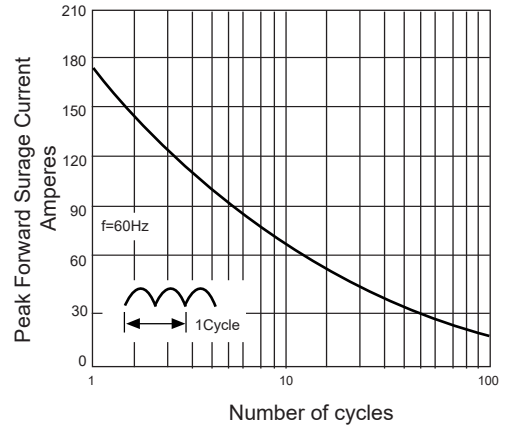


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

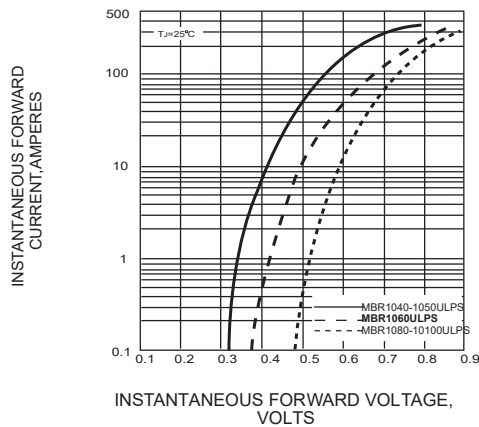
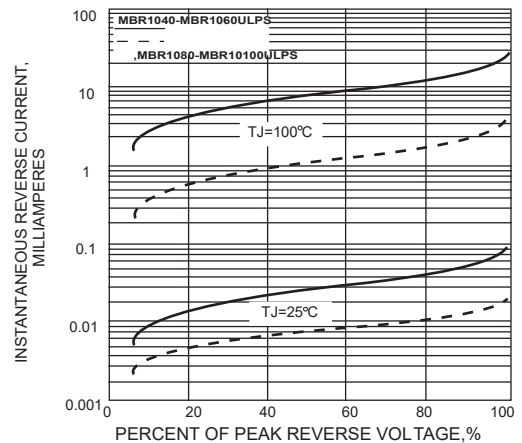


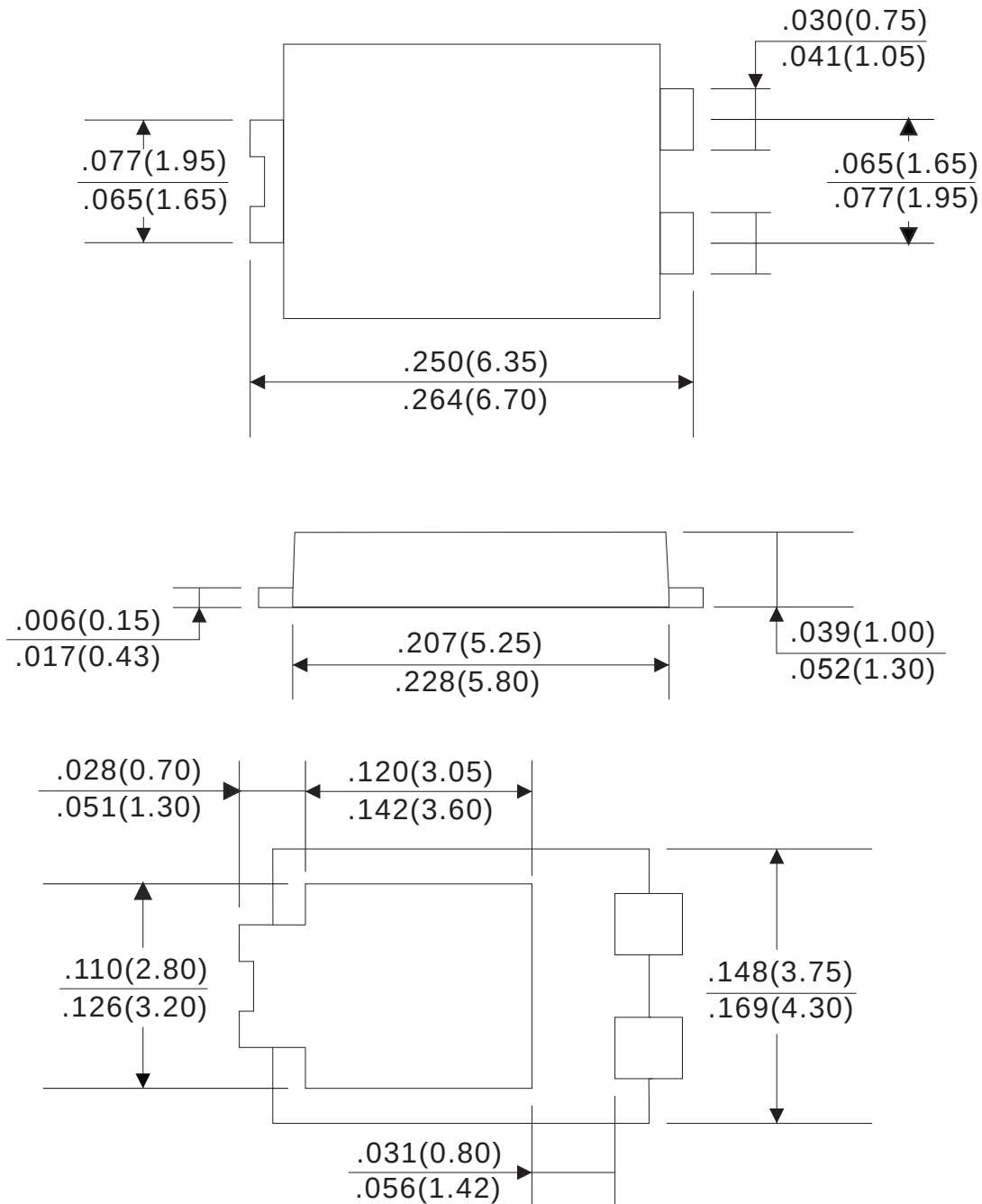
FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





Outline Drawing

TO-277B



Dimensions in inches and (millimeters)

Rev.A

Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
MBR1060ULPS -T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	1060U	Tape&Reel: 5 Kpcs/Reel

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

(2) 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) WS : 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.

Disclaimer

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

This is the preliminary specification. WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.