

PRIMARY CHARACTERISTICS	
V_{RRM}	60V
I_O	5A
V_F	0.55V
$T_{J,Max}$	150°C

FEATURES
- EXTREMELY LOW V_F - TRENCH SCHOTTKY TECHNOLOGY - LOW POWER LOSS / HIGH EFFICIENCY - MOISTURE SENSITIVITY LEVEL 1

TO-277B PACKAGE
Marking Code : 560L
Ex : MBR560LPS
 
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


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 CHARACTERISTICS
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.
FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	MBR560LPS	UNITS
MAXIMUM RECURRENT 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 SEE FIG.1 PER LEG	I_O	5	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	I_{FSM}	125	A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 175	°C
OPERATING JUNCTION TEMPERATURE RANGE	T_J	- 55 TO + 150	°C
ELECTRICAL CHARACTERISTICS			
CHARACTERISTICS	SYMBOL	MBR560LPS	UNITS
Marking Code		560L	
MAXIMUM FORWARD VOLTAGE AT $I_F=5A$ $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	V_F	0.55 0.53	V
MAXIMUM REVERSE CURRENT AT 25°C PER LEG (NOTE 1)	I_R	0.5	mA
MAXIMUM REVERSE CURRENT AT 125°C PER LEG (NOTE 1)	I_R	20	mA
THERMAL CHARACTERISTICS (T _c =25°C UNLESS OTHERWISE NOTED)			
PARAMETER	SYMBOL	MBR560LPS	UNITS
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	$R_{\theta jc}$	23	°C/W

NOTES : 1. PULSE TEST: 300µs PULSE WIDTH, 1% DUTY CYCLE.



RATINGS AND CHARACTERISTIC CURVES OF MBR560LPS

FIG. 1-FORWARD CURRENT DERATING CURVE

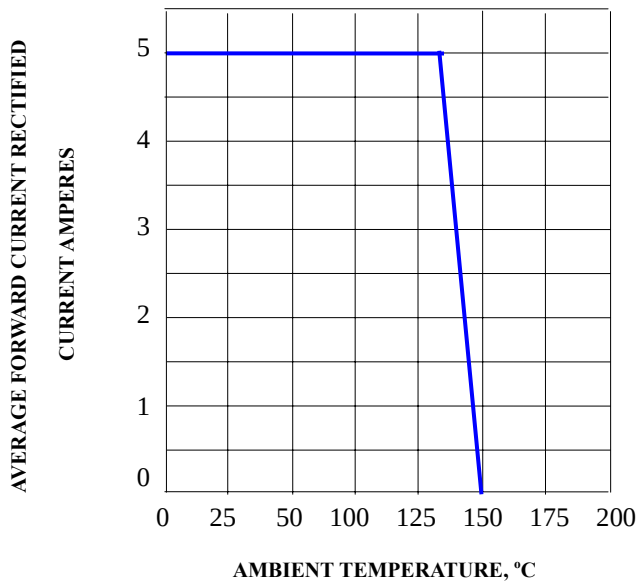


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

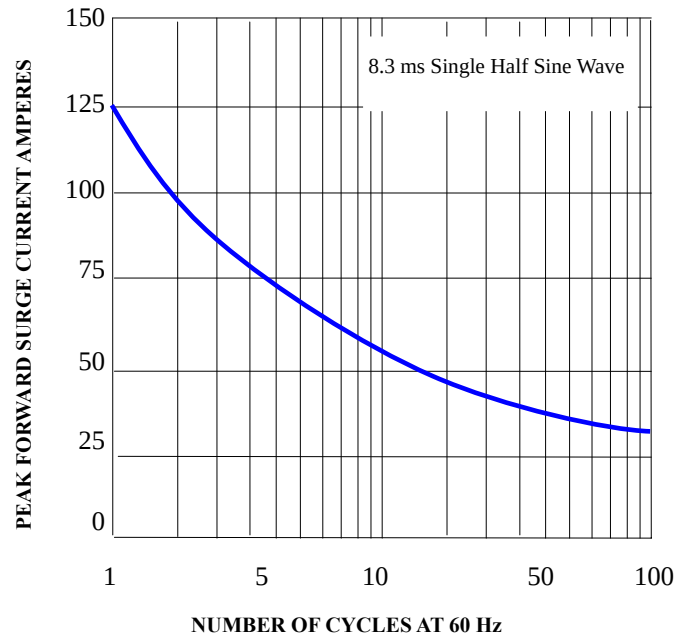


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

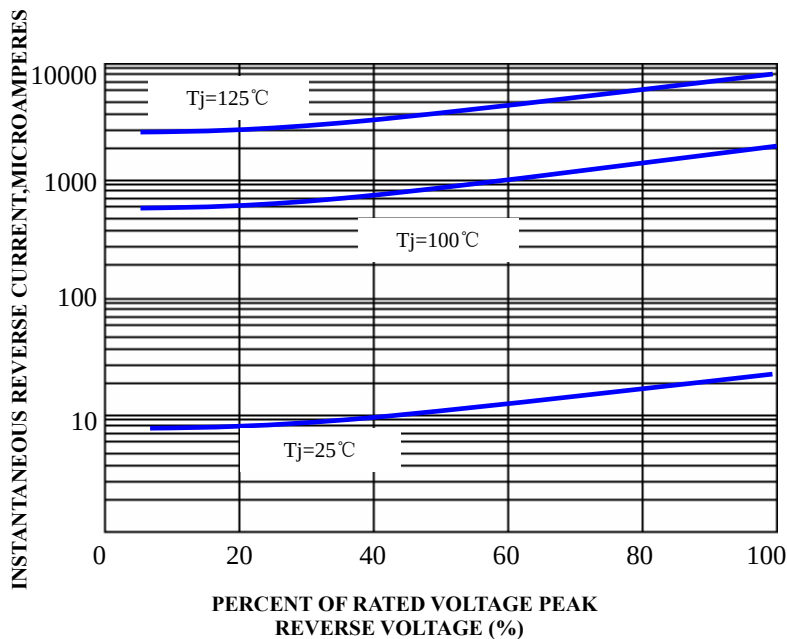
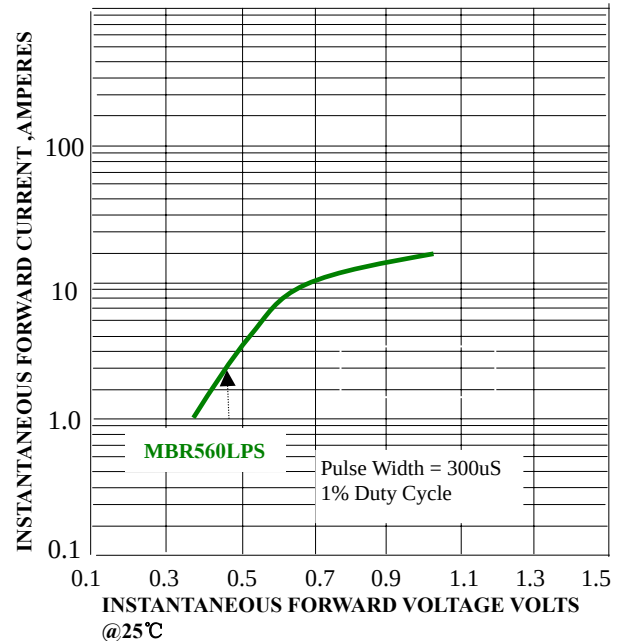
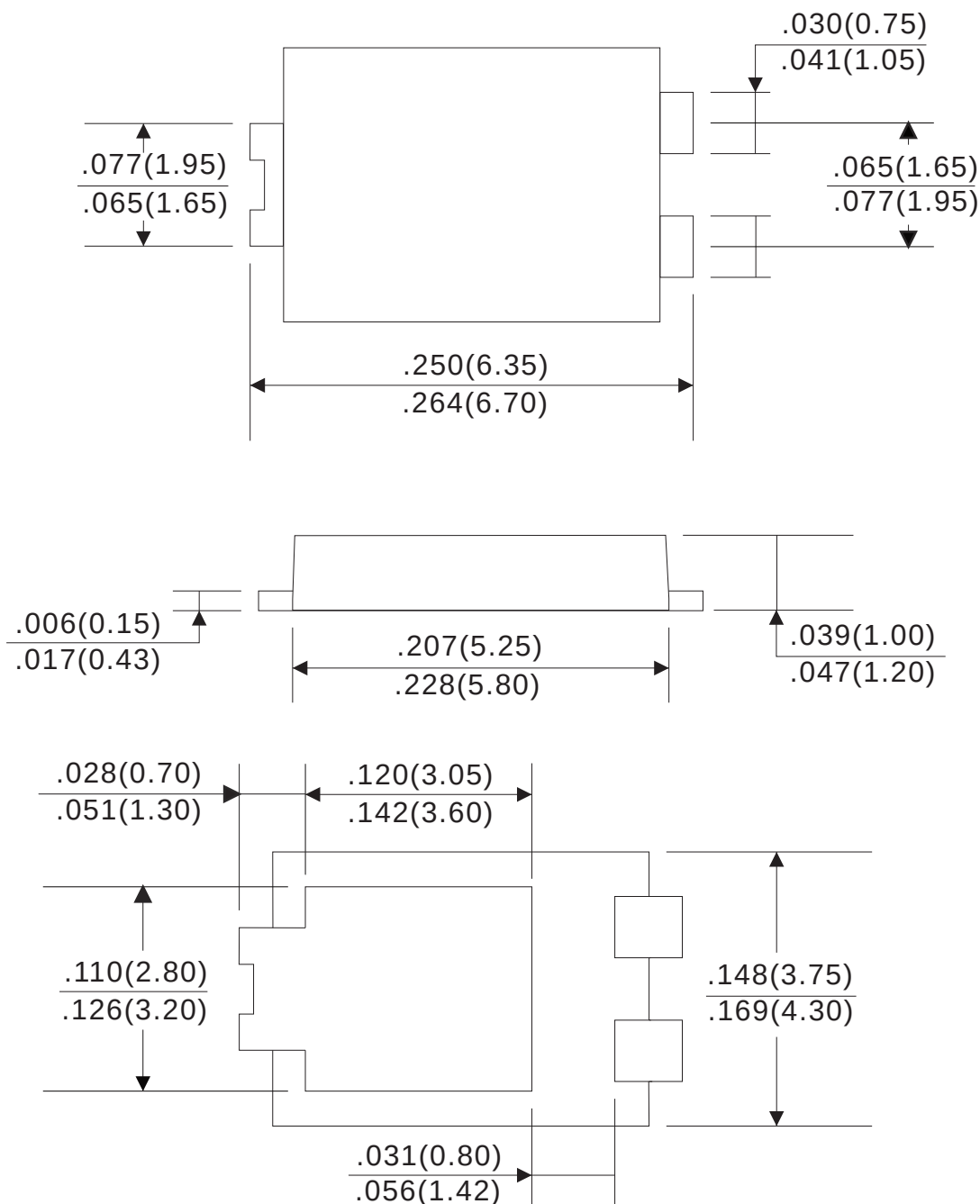


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



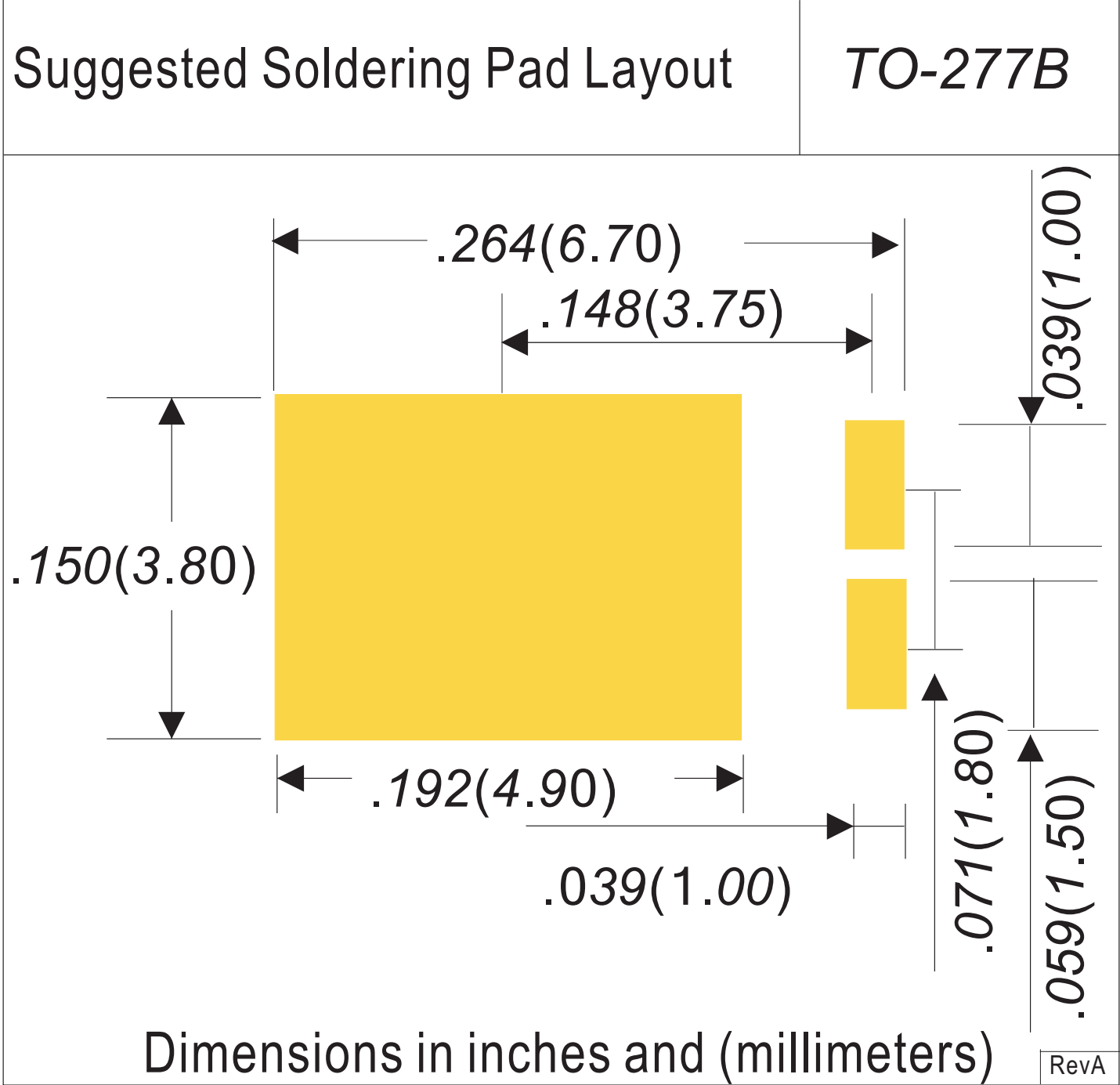
Outline Drawing

TO-277B



Dimensions in inches and (millimeters)

Rev.A



Ordering Information:

Device PN	Packing
MBR560LPS -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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