MURS340-B THRU MURS360-B

SURFACE MOUNT
ULTRAFAST RECTIFIER
VOLTAGE：400V TO 600V CURRENT： 3.0A

GULF SEMI

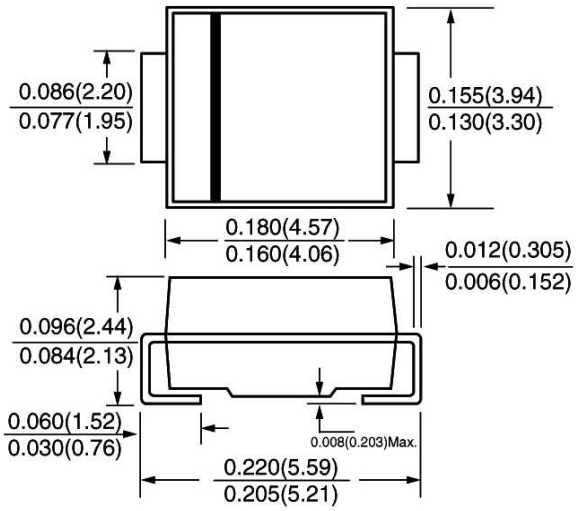
FEATURE

Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
Ultrafast recovery time for high efficiency
High surge capability
High temperature soldering guaranteed
260℃/10sec/at terminals
Glass passivated chip

MECHANICAL DATA

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Case: Molded with UL-94 class V-0 recognized Flame Retardant Epoxy
Polarity: Color band denotes cathode end
Mark: M340B M360B

SMB / DO—214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	MURS340-B	MURS360-B	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	600	V
Maximum RMS Voltage	Vrms	280	420	V
Maximum DC blocking Voltage	Vdc	400	600	V
Maximum Average Forward Rectified Current 3/8″lead length at T_L =90℃	If(av)	3.0		A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	125.0		A
Maximum Instantaneous Forward Voltage at rated forward current T_J=25℃	Vf	1.25		V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	10.0 50.0		μA
Maximum Reverse Recovery Time (Note1)	Trr	50		nS
Typical Junction Capacitance (Note 2)	Cj	50		pF
Typical Thermal Resistance, junction to lead	Rth(jl)	11		℃/W
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +175		℃

Note：
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

Fig. 1 – Forward Current Derating Curve

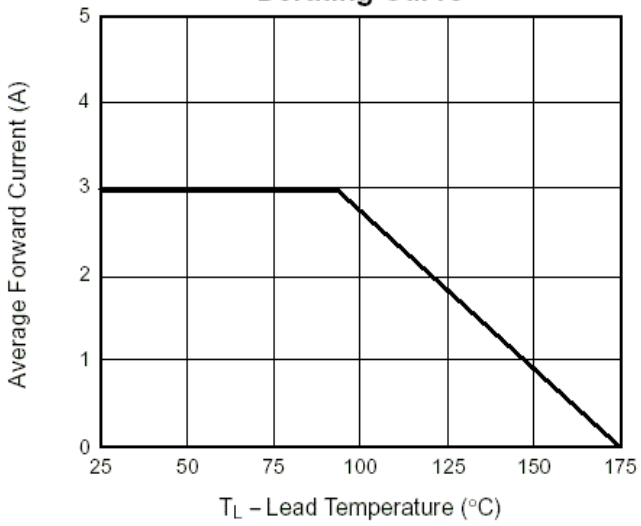


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

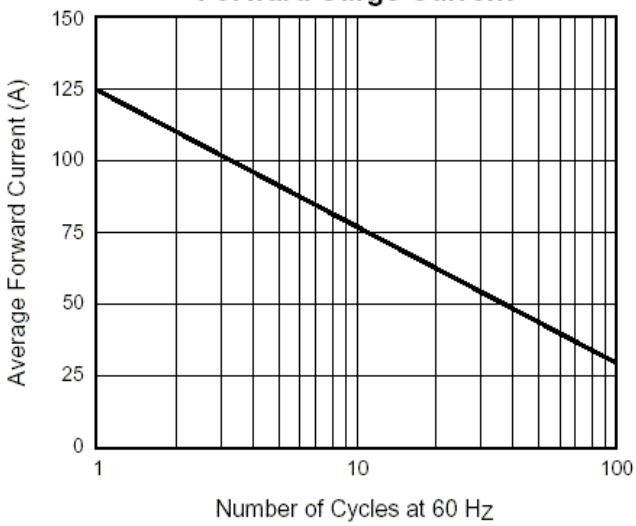


Fig. 3 – Typical Instantaneous Forward Characteristics

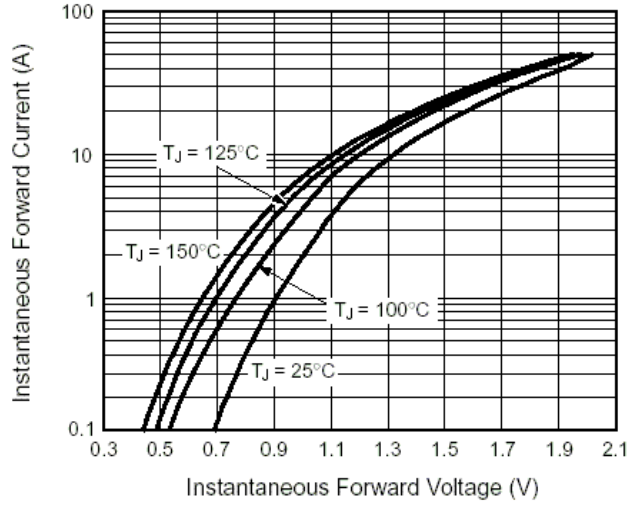


Fig. 4 – Typical Reverse Characteristics

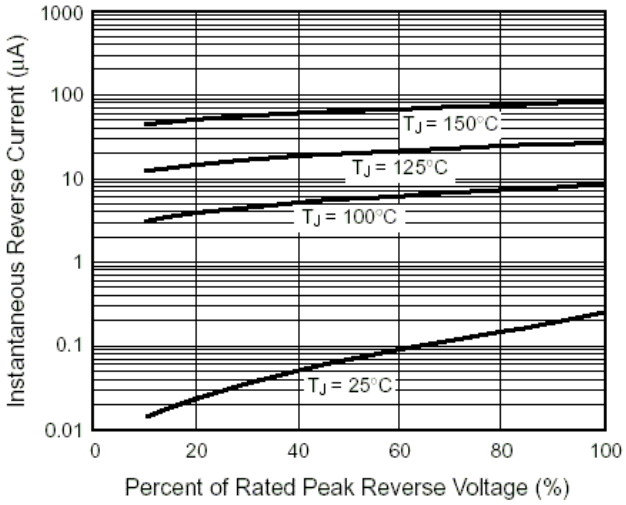


Fig. 5 – Typical Junction Capacitance