# MURS340-B THRU MURS360-B

SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE: 400V TO 600V

CURRENT: 3.0A

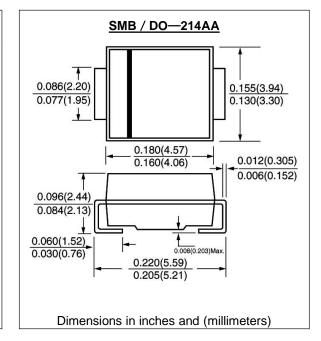


## FEATURE

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°C/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



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, 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 Curre 3/8"lead length at $T_L$ =90 $^\circ C$	ent If(av)	3.0		A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	lfsm	125.0		A
Maximum Instantaneous Forward Voltage at rat forward current $T_J$ =25 °C	ted Vf	1	.25	V
Maximum DC Reverse CurrentTa =25°at rated DC blocking voltageTa =125°	- I Ir I	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		°C/V
Storage and Operating Junction Temperature	Tstg, Tj	-55 t	-55 to +175	

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

Rev.A1

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#### RATINGS AND CHARACTERISTIC CURVES MURS340-B THRU MURS360-B

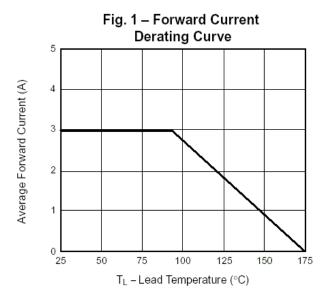
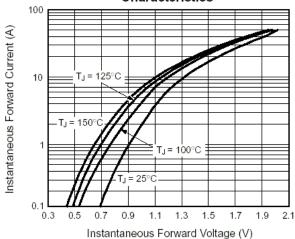
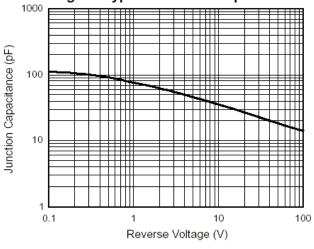


Fig. 3 – Typical Instantaneous Forward Characteristics







Rev.A1

