MURS340 MURS360

SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE: 400V TO 600V CURRENT: 3.0A



FEATURE

Plastic package has Underwriters Laboratories Flammability Classification 94V-

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

 $260\,^{\circ}\mathrm{C}/10\mathrm{sec/at}$ terminals Glass passivated chip

MECHANICAL DATA

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

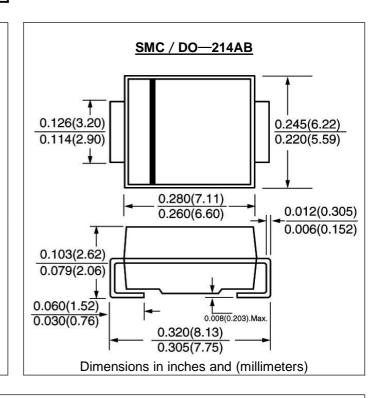
Case: JEDEC DO-214AB molded plastic body over

passivated chip

Polarity: Color band denotes cathode end

Weight: 0.007 ounce, 0.21 gram

Mark: M340 M360



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	MURS360	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 $T_L = 130^{\circ}C$ Current 3/8" lead length at : $T_L = 115^{\circ}C$	If(av)	3.0 4.0		А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	125.0		А
Maximum Instantaneous Forward Voltage at rated forward current $T_J = 25 \degree \text{C}$ If =3.0A	Vf	1.25		V
Maximum DC Reverse Current Ta =25 $^{\circ}$ C at rated DC blocking voltage Ta =125 $^{\circ}$ C	Ir	10.0 50.0		μ Α μ Α
Maximum Reverse Recovery Time (Note1)	Trr	50		nS
Typical Junction Capacitance (Note 2)	Cj	50		pF
Typical Thermal Resistance, junction to lead	R(jl)	11		°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +150		°C

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

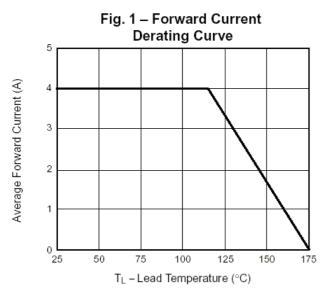
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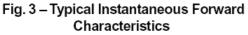
RATINGS AND CHARACTERISTIC CURVES

50

25

0





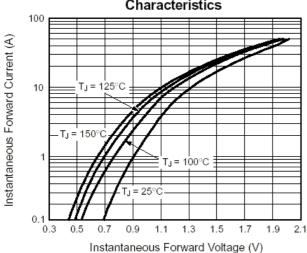


Fig. 5 - Typical Junction Capacitance 1000 Junction Capacitance (pF) 100 10 0.1 100 Reverse Voltage (V)

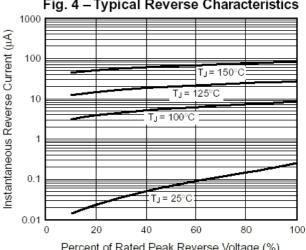
Forward Surge Current 150 125 Average Forward Current (A) 100 75

Fig. 2 - Maximum Non-Repetitive Peak

Number of Cycles at 60 Hz

100





Percent of Rated Peak Reverse Voltage (%)

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