

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°C/10sec/at terminals
Glass passivated chip

MECHANICAL DATA

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

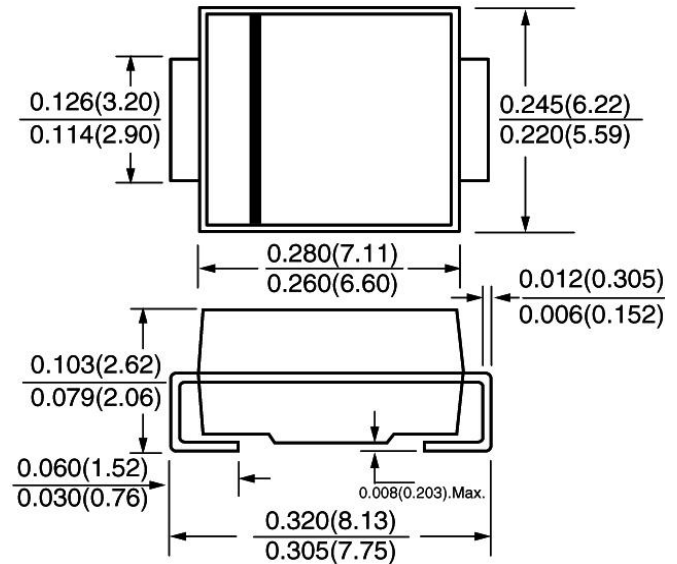
Case: JEDEC DO-214AB molded plastic body over passivated chip

Polarity: Color band denotes cathode end

Weight: 0.007 ounce, 0.21 gram

Mark: M340 M360

SMC / DO-214AB



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	V _{rrm}	400	600	V
Maximum RMS Voltage	V _{rms}	280	420	V
Maximum DC blocking Voltage	V _{dc}	400	600	V
Maximum Average Forward Rectified Current I _{f(av)} at T _L =130°C Current 3/8" lead length at : T _L =115°C	I _{f(av)}	3.0 4.0		A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	I _{fsm}	125.0		A
Maximum Instantaneous Forward Voltage at rated forward current T _J =25°C I _f =3.0A	V _f	1.25		V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10.0 50.0		μA μA
Maximum Reverse Recovery Time (Note1)	T _{rr}	50		nS
Typical Junction Capacitance (Note 2)	C _j	50		pF
Typical Thermal Resistance, junction to lead	R(jl)	11		°C/W
Storage and Operating Junction Temperature	T _{stg} , T _J	-55 to +150		°C

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 – Forward Current Derating Curve

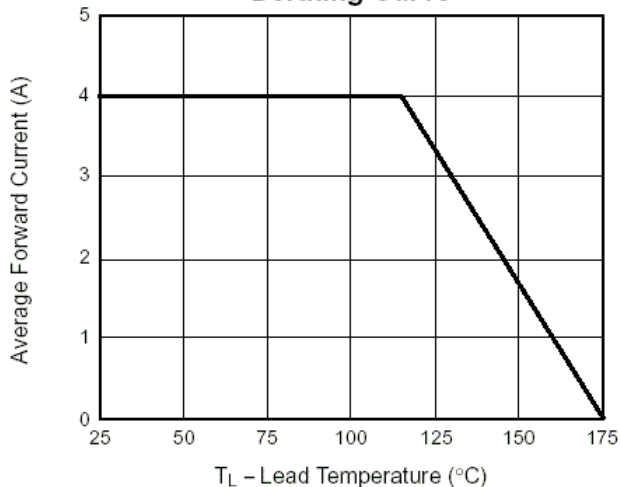


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

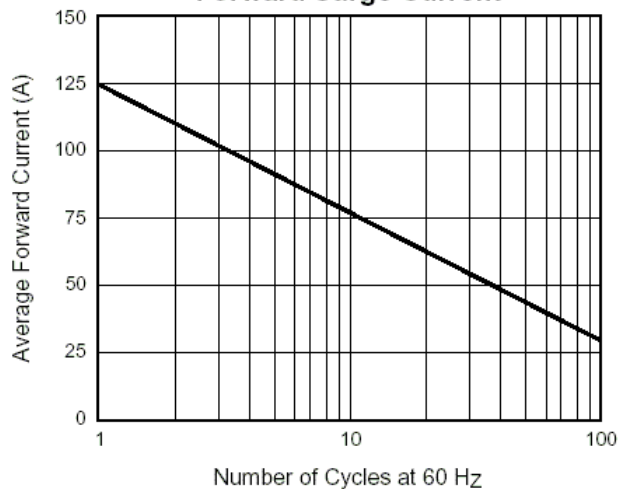


Fig. 3 – Typical Instantaneous Forward Characteristics

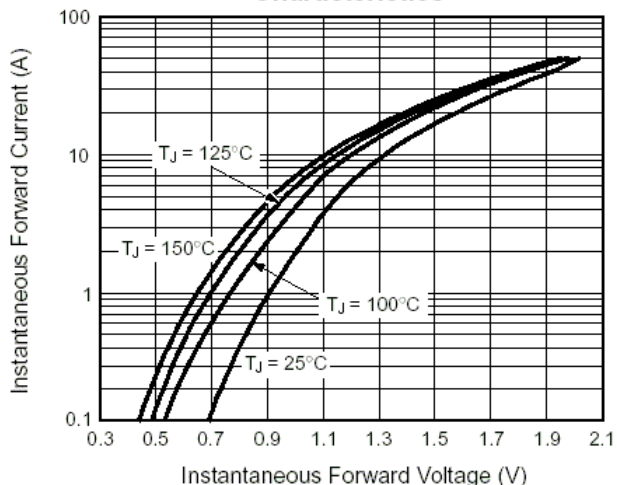


Fig. 4 – Typical Reverse Characteristics

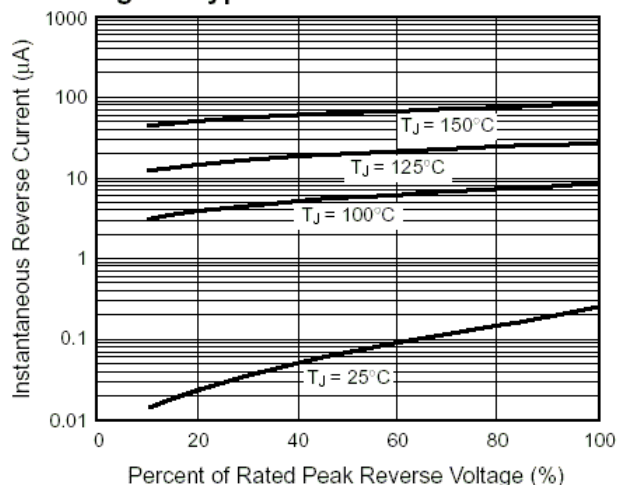


Fig. 5 – Typical Junction Capacitance

