MURS280-A

SURFACE MOUNT ULTRAFAST GLASS PASSIVATED RECTIFIER

VOLTAGE：800V **CURRENT： 2.0A**

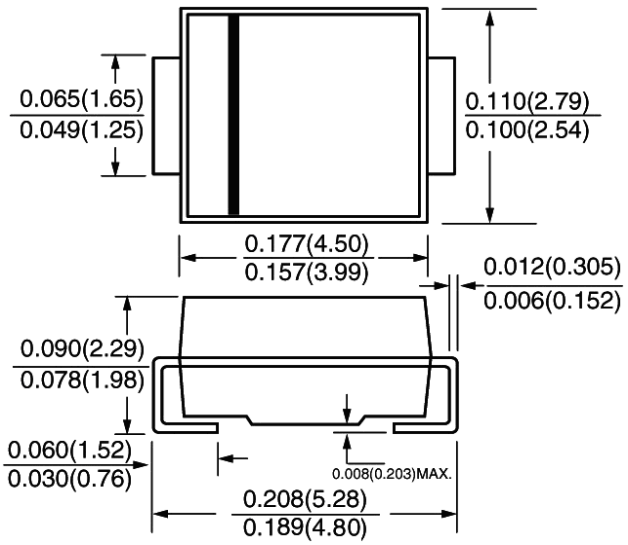
FEATURE

Ideal for surface mount pick and place application
Low profile package
Built-in strain relief
High surge capability
High temperature soldering guaranteed
260℃/10sec/at terminals
Glass passivated chip
Ultrafast recovery time for high efficiency

MECHANICAL DATA

Terminal：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
Marking：M280A

SMA / DO-214AC



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)

	Symbol	MURS280-A	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC blocking Voltage	Vdc	800	V
Maximum Average Forward Rectified at Tl=95℃	If(av)	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	35.0	A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.75	V
Maximum Reverse Recovery Time (Note 1)	Trr	75	nS
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	10.0 100.0	μA
Typical Junction Capacitance (Note 2)	Cj	30.0	pF
Typical Thermal Resistance (Note 3)	Rth(jl)	16.0	℃/W
Storage and Operating Temperature	Tj, Tstg	-55 to +150	℃

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHZ and applied voltage of 4.0Vdc
3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

Fig. 1 – Forward Current Derating Curve

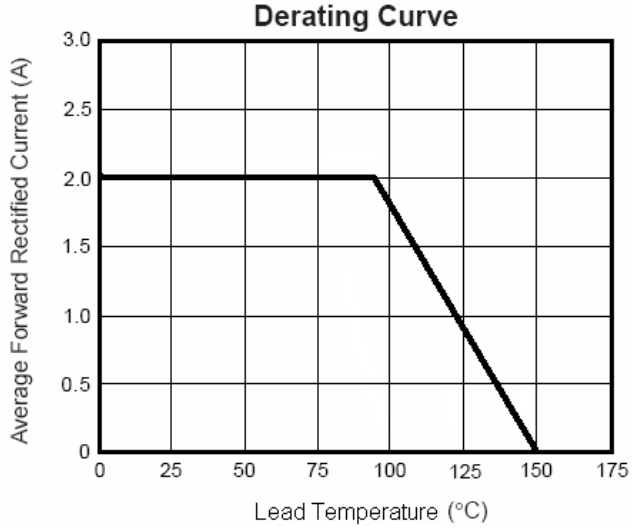


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

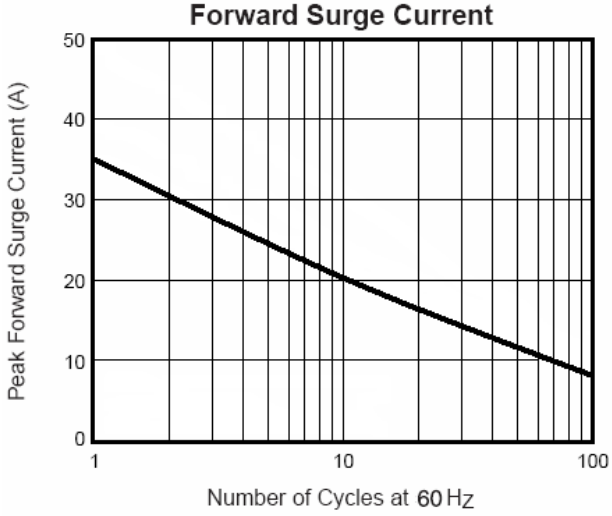


Fig. 3 – Typical Instantaneous Forward Characteristics

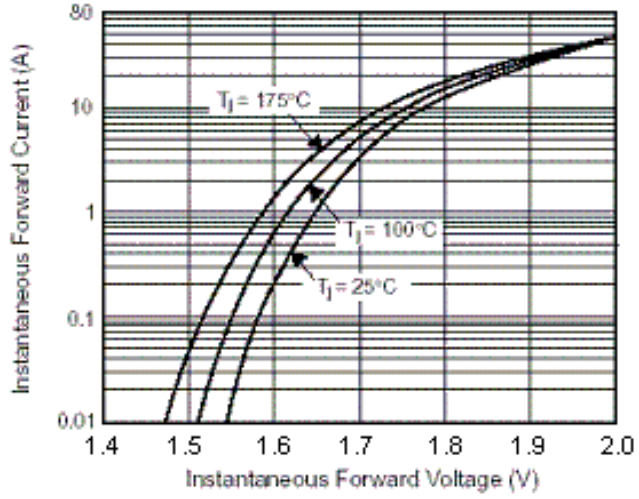


Figure 4. Typical Reverse Leakage Characteristics

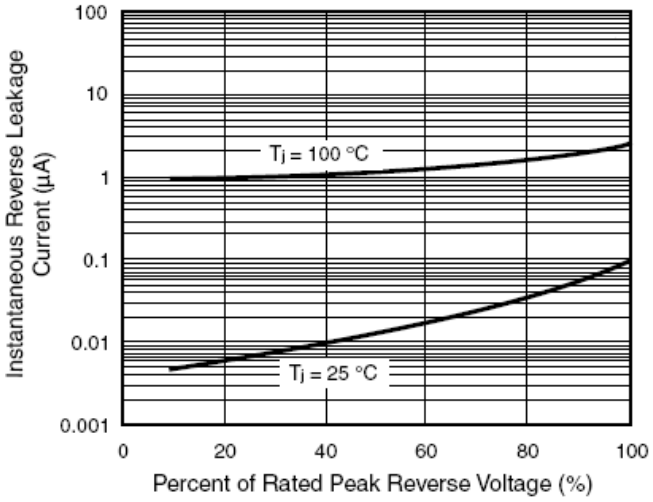


Fig. 5 – Typical Junction Capacitance