

Technical Data
Data Sheet M2611, Rev. A

MUR160SMA ULTRAFAST PLASTIC RECTIFIER

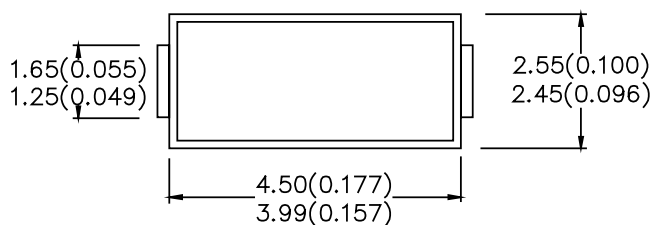
Features:

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 20A Peak
- Low Power Loss
- Super Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-0

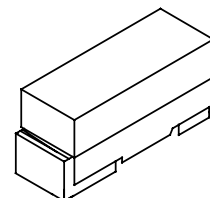
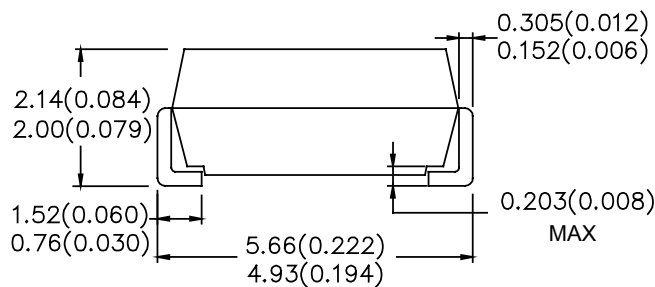
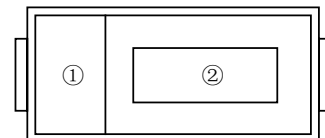
Mechanical Data:

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Weight: 0.064 grams (approx.)
- Marking: Type Number

Mechanical Dimensions: In mm / Inches



CATHODE BAND ◯ ———▶ ◯ ANODE



SMA

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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Repetitive Peak Inverse Voltage	V_{RWM}	-	600	V
Average Rectified Output Current	I_o	50Hz Sine Wave $T_A=55^{\circ}\text{C}$	1.2	A
Max. One Cycle Non-Repetitive Surge Forward Current	I_{FSM}	50Hz Half Sine Wave	20	A

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_F	@ $I_F=2\text{A}$, Pulse, $T_J = 25^{\circ}\text{C}$	1.6	V
Max. Reverse Current*	I_{R1}	@ $V_R = \text{rated } V_R$ $T_J = 25^{\circ}\text{C}$	0.5	μA
	I_{R2}	@ $V_R = \text{rated } V_R$ $T_J = 150^{\circ}\text{C}$	150	μA
Max. Reverse Recovery Time	t_{rr}	$I_F=500\text{mA}$, $I_R=1\text{A}$, and $I_{rm}=250\text{mA}$	30	ns

* Pulse width < 300 μs , duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +175	$^{\circ}\text{C}$
Max. Storage Temperature	T_{stg}	-	-55 to +175	$^{\circ}\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	*1	157	$^{\circ}\text{C/W}$
		*2	108	
Approximate Weight	wt	-	0.064	g
Case Style	SMA			

*1 Glass-Epoxy Substrate Mounted (Soldering Land=2×2mm, Both Sides)

*2 Alumina Substrate Mounted (Soldering Land=2×2mm, Both Sides)

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