

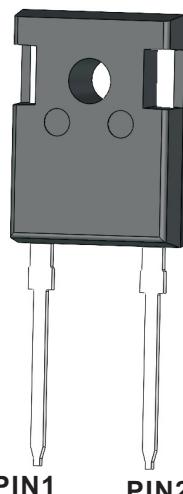


Glass Passivated High Voltage Rectifier

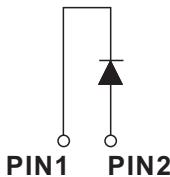
Reverse Voltage - 1600 V

Forward Current - 60 A

TO-247-2L



ROHS
COMPLIANT



Features

- High surge forward current capability
- High voltage capability
- Low forward voltage drop
- Low leakage current
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance

Mechanical data

- Case: TO-247-2L
- pprox. Weight: 6.0g (0.21oz)
- Lead free finish, RoHS compliant
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Parameter	Symbol	GR60160W	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1600	V
Maximum RMS voltage	V_{RMS}	1120	V
Maximum DC Blocking Voltage	V_{DC}	1600	V
Maximum Average Forward Rectified Current @ $T_c=100^\circ C$ Per device	$I_{F(AV)}$	60	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	1045	A
Max Instantaneous Forward Voltage at 60 A	V_F	1.12	V
Maximum DC Reverse Current $T_j = 25^\circ C$ at Rated DC Reverse Voltage $T_j = 125^\circ C$	I_R	10 500	uA
Typical Thermal Resistance	$R_{\theta JC}$	0.4	$^\circ C/W$
Operating Junction Temperature Range	T_j	-55 ~ +150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ +150	$^\circ C$



Fig.1 Forward Current Derating Curve

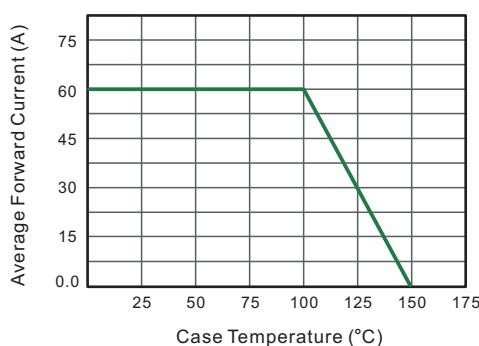


Fig.2 Typical Instantaneous Reverse Characteristics

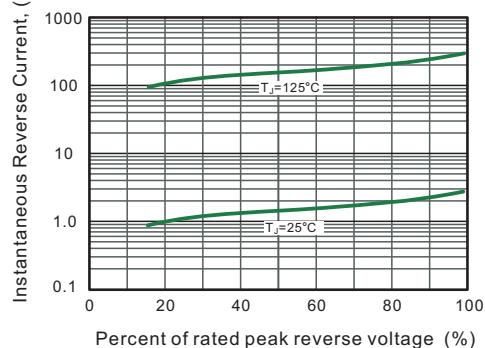


Fig.3 Typical Forward Characteristic

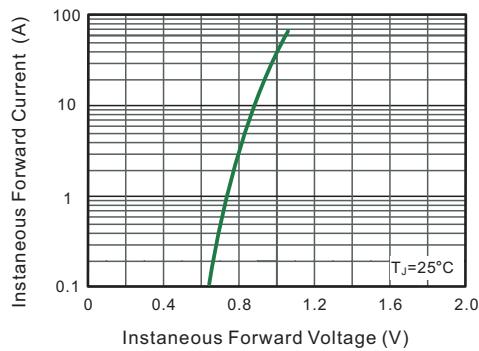
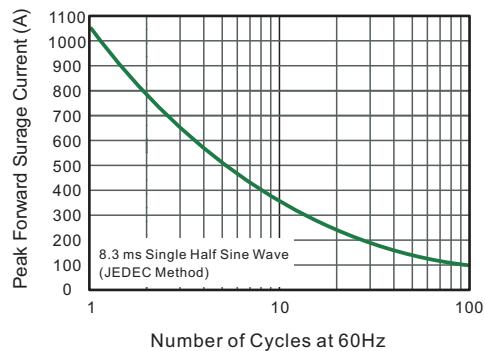


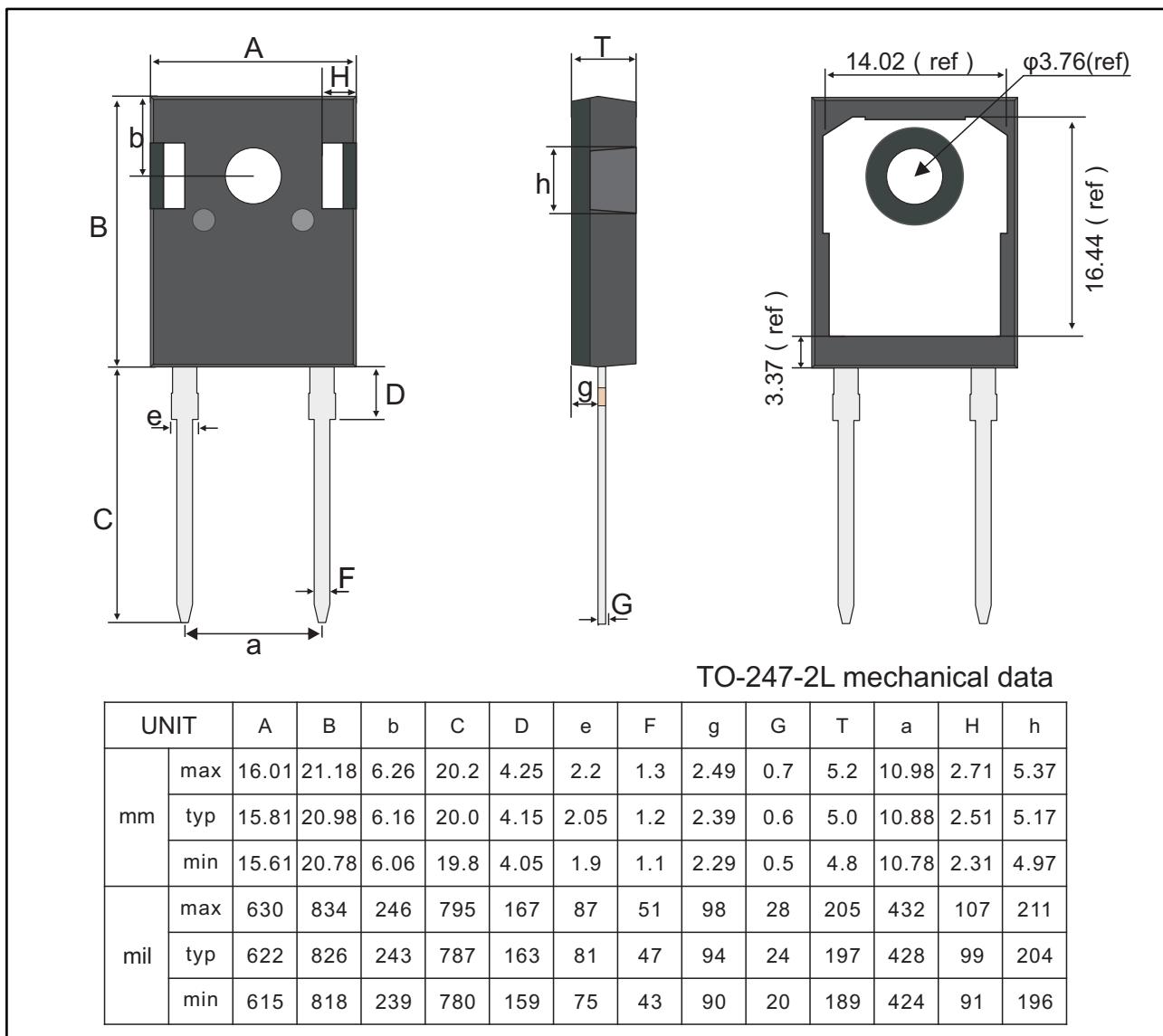
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



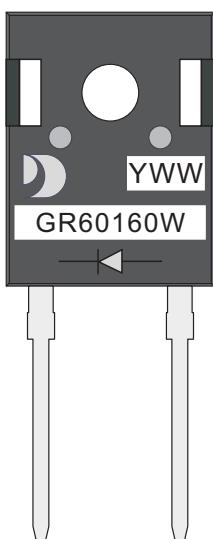


Package Outline
Through hole Package ; 2 leads

TO-247-2L



Marking Diagram



YWW: Date Code
Y:Years(0~9)
WW:Week
GR60160W: Product name
(NOTE:The weekly code is based on the actual number of weeks in the calendar year.)



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