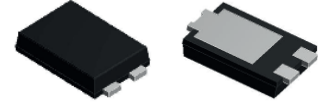


Features

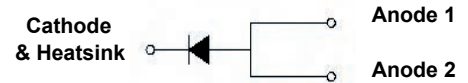
- Excellent high temperature stability
- Low forward voltage
- Low power loss/high efficiency
- High forward surge capability
- Ideal for automated placement
- Compliant to RoHS directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



TO-277

Applications

- Case: TO-277
- Molding compound meets UL94V-0 flammability rating
- Moisture sensitivity level: level 1, per J-STD-020
- Terminal: Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 2 whisker test



Schematic Diagram

Applications

Trench Schottky barrier rectifier is designed for high frequency miniature switched mode power supplies such as adapters, lighting and on-board DC/DC converters.

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbols	GSP1560L	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	15	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I_{FSM}	260	A
Maximum Instantaneous Forward Voltage at $I_F=15A$ Per Diode ¹	$T_J=25^\circ\text{C}$ V_F	0.55	V
Maximum Instantaneous Reverse Current Per Diode at Rated Reverse Voltage	$T_J=25^\circ\text{C}$ I_R	200	μA
	$T_J=125^\circ\text{C}$	15	mA
Typical Thermal Resistance	$R_{\theta JL}$	11	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Note:

1. Pulse test with pulse width=300 μs , 1% duty cycle.

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

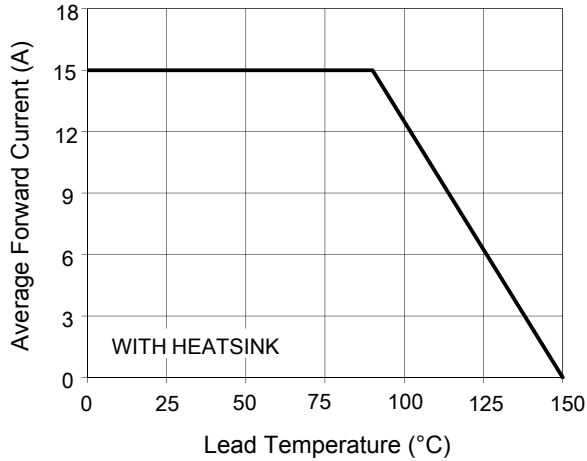


Figure 1. Forward Current Derating Curve

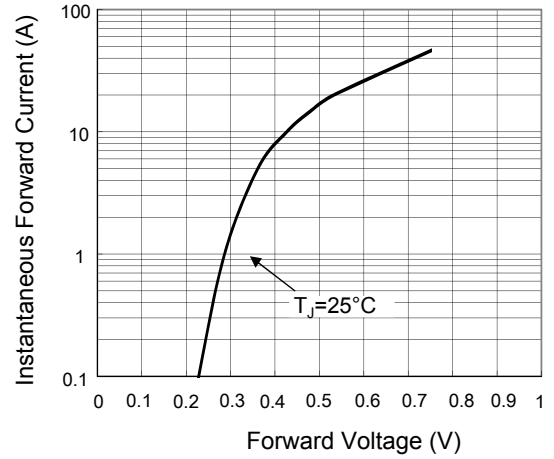


Figure 2. Typical Forward Characteristics

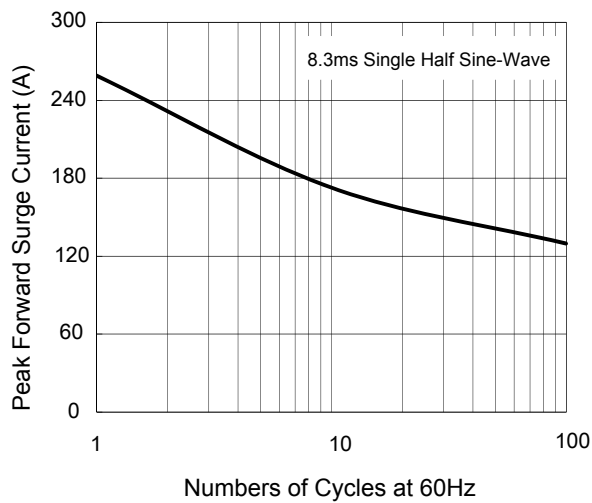


Figure 3. Maximum Non-Repetitive Forward Surge Current

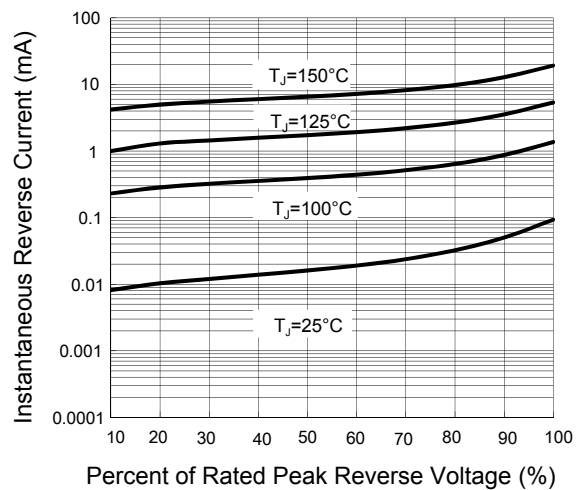
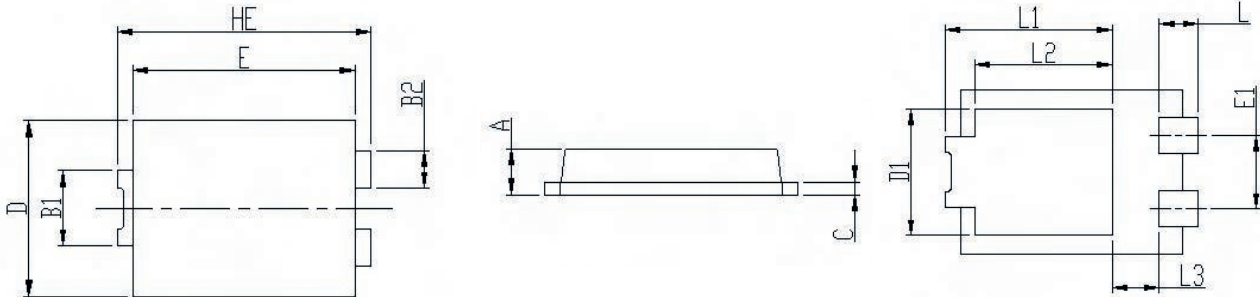


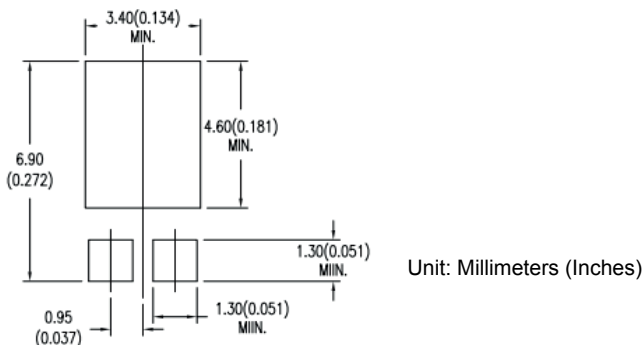
Figure 4. Typical Reverse Characteristics

Package Outline Dimensions (TO-277)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
HE	6.400	6.600	0.252	0.260
E	5.600	5.800	0.220	0.228
D	4.100	4.300	0.161	0.169
B1	1.700	1.900	0.067	0.075
B2	0.800	1.000	0.031	0.039
A	1.050	1.200	0.041	0.047
C	0.250	0.400	0.010	0.016
L	0.850	1.100	0.033	0.043
L1	4.200	4.400	0.165	0.173
L2	3.520 NOM		0.139 NOM	
L3	1.100	1.400	0.043	0.055
D1	3.000	3.300	0.118	0.130
E1	1.860 TYP		0.073 TYP	

Recommended Pad Layout



Order Information

Device	Package	Marking	Carrier	Quantity
GSP1560L	TO-277	GSP1560L	Tape & Reel	5,000 Pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com