



SL1545LPSH

LOW VF SCHOTTKY RECTIFIER

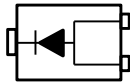
REVERSE VOLTAGE: 45 VOLTS
FORWARD CURRENT: 15.0 AMPERE

FEATURES

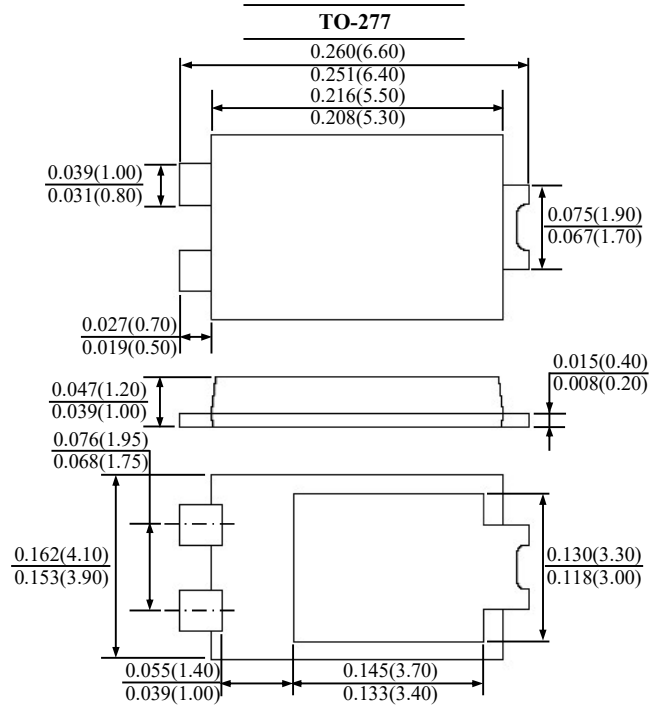
- High current capability, low forward voltage
- Excellent high temperature stability
- Low power loss, and high efficiency
- High Forward Surge Capability
- Patented package technology
- Suffix "H" indicates Halogen-free parts, ex. SL1545LPSH

MECHANICAL DATA

Case : TO-277
 Terminals : Matte tin plated., solderable per MIL-STD-750,
 Method 2026
 Molding Compound Flammability Rating : UL 94V-0



TOP VIEW



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Parameter	Symbols	SL1545LPSH	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45	Volts
Maximum RMS Voltage	V_{RMS}	31.5	Volts
DC Blocking Voltage	V_R	45	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	15	Amp
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method)	I_{FSM}	250	Amp
Maximum Forward Voltage at $I_F=15A, T_J=25^\circ C$	V_F	0.48	Volts
Maximum Repetitive Peak Reverse Current at $V_R=45V, T_A=25^\circ C$ $V_R=45V, T_A=100^\circ C$	I_R	0.3 15.0	mAmp
Typical Thermal Resistance from Junction to Ambient (Note 1)	$R_{\theta JA}$	80	°C/W
Typical Thermal Resistance from Junction to Case (Note 1)	$R_{\theta JC}$	10	°C/W
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES:

1. FR-4 PCB 2oz.copper, minimum recommend pad layout .18.8mm×14.4.Anode pad dimensions 5.6mm×14.4mm



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RATINGS AND CHARACTERISTIC CURVES

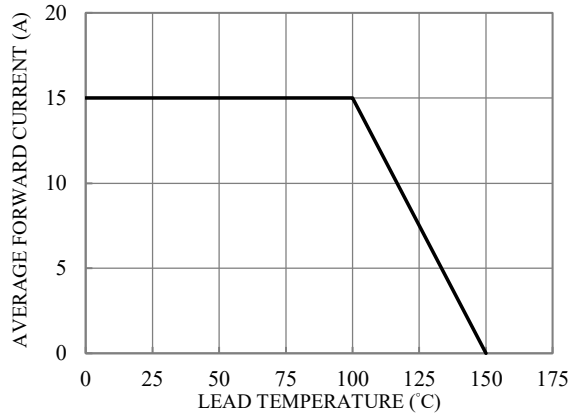


Fig.1-FORWARD CURRENT DERATING CURVE

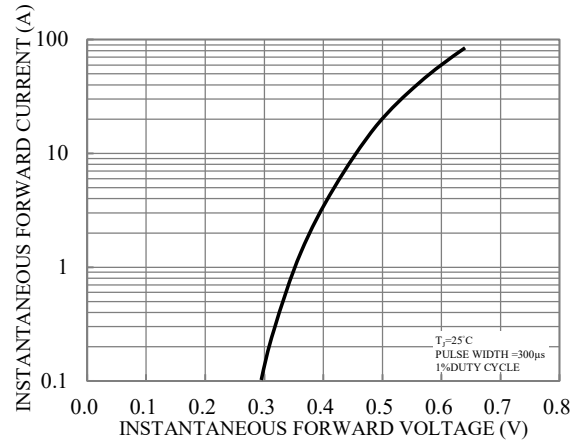


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

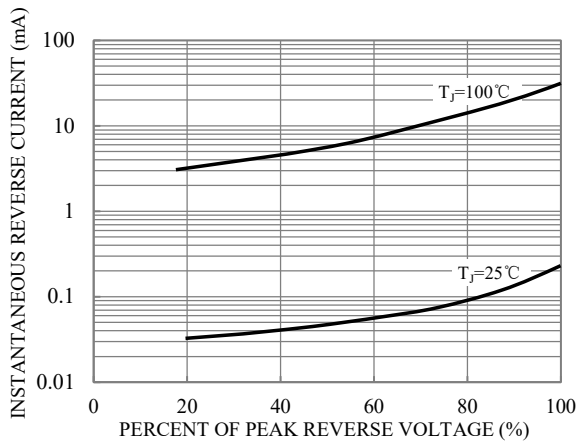


Fig.3-TYPICAL REVERSE CHARACTERISTICS

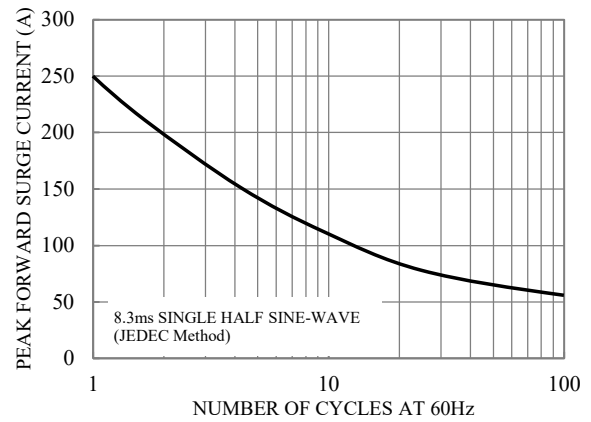


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT