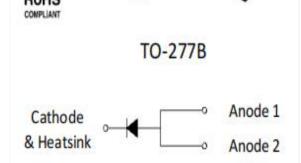


SP1045L Schottky Rectifier

Features

- Excellent high temperature stabilit
- Low leakage current
- 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



Typical Application

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

Mechanical Data

• **Case:** TO-277B

Molding compound meets UL 94 V-0 flammability rating

Moisture sensitivity level : level 1 , per J-STD-020 $\,$

• Terminals:Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity**: Indicated by cathode band

• **Weight:** 0.095g (approximately)

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER				Unit	SP1045L		
Peak Repetitive Reverse Voltage				V	45		
Average Rectified Forward Current				Α	10		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode				Α	250		
Maximum Instantaneous Forward Voltage per diode (Note 1)	IF=10A	T _J =25°C	VF	V	0.45		
Maximum Instantaneous Reverse Current		T _J =25°C		μA	100		
per diode at rated reverse voltage		T _J =125°C		mA	15		
Typical thermal resistance				°C/W	11		
Operating temperature range				°C	-55 to +150		
Storage temperature range				°C	-55 to +150		

Revised: 2021-11-29

Note 1 :Pulse Test with Pulse Width = 300us, 1% Duty Cycle

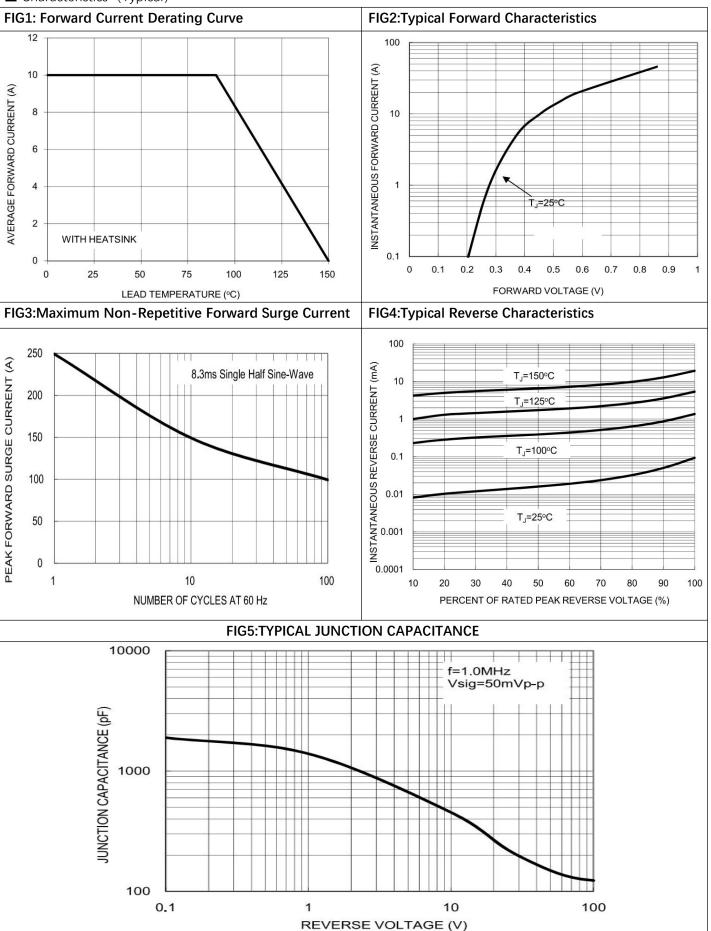






SP1045L

■ Characteristics (Typical)



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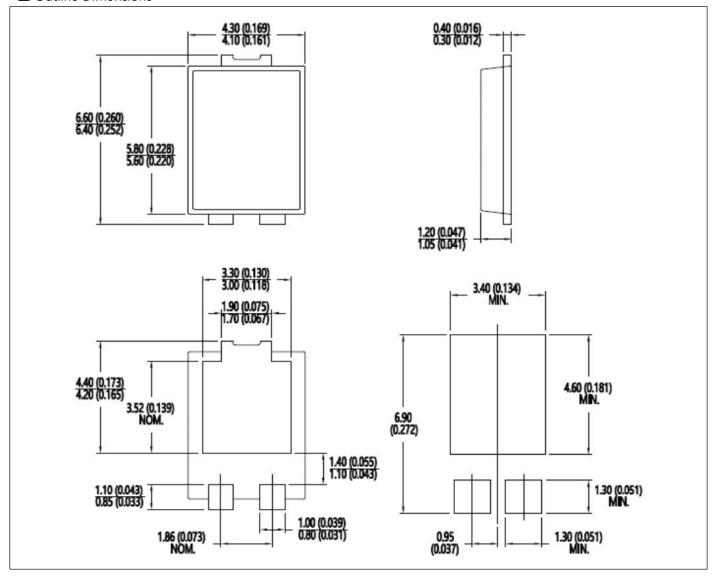


SP1045L

■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SP1045L	TO-277B	5000	10000	80000	13"reel

■ Outline Dimensions



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