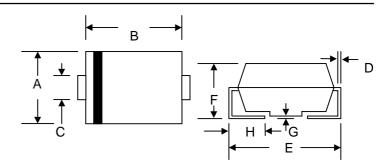


# 1.0A LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## **Features**

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 30A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



# **Mechanical Data**

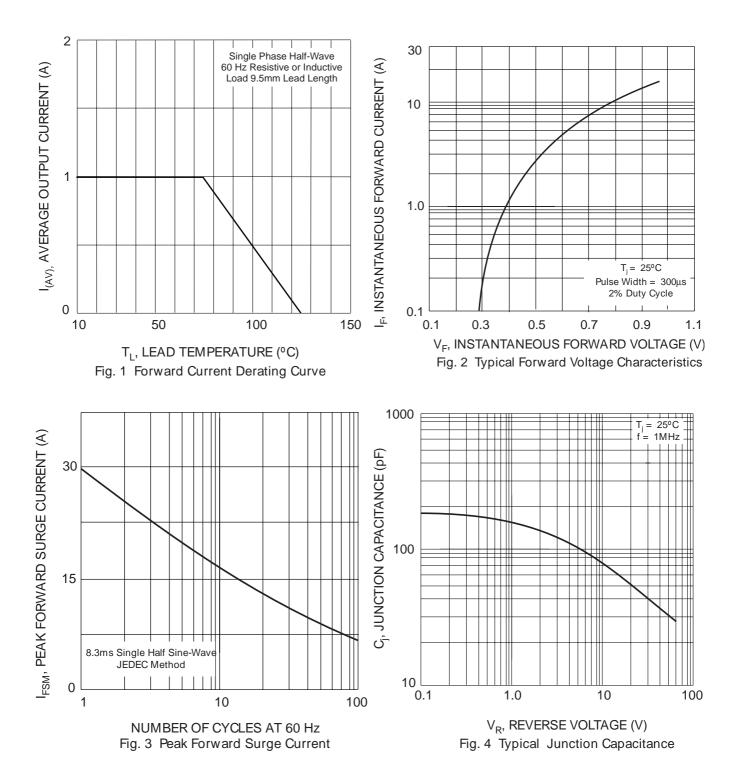
- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

SMA/DO-214AC				
Dim	Min	Max		
Α	2.50	2.90		
В	4.00	4.60		
С	1.40	1.60		
D	0.152	0.305		
E	4.80	5.28		
F	2.00	2.44		
G	0.051	0.203		
Н	0.76	1.52		
All Dimensions in mm				

# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	SL12	SL13	SL14	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current @T <sub>L</sub> = 75°C	lo		1.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		30		А
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	0.38	0.38	0.40	V
	IRM	0.5 20		mA	
Typical Thermal Resistance Junction to Ambient (Note 1)	R ⊕ JA		88		K/W
Operating Temperature Range	Tj		-65 to +125		°C
Storage Temperature Range	Тѕтс		-65 to +150		°C

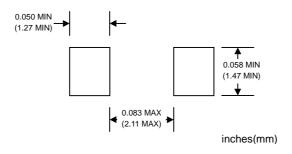
Note: 1. Mounted on P.C. Board with 5.0mm<sup>2</sup> (0.13mm thick) copper pad areas



#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity
SL12-T1	SMA	1800/Tape & Reel
SL12-T3	SMA	7500/Tape & Reel
SL13-T1	SMA	1800/Tape & Reel
SL13-T3	SMA	7500/Tape & Reel
SL14-T1	SMA	1800/Tape & Reel
SL14-T3	SMA	7500/Tape & Reel

## RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.