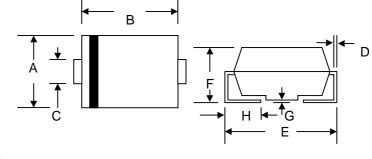


1.0A LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

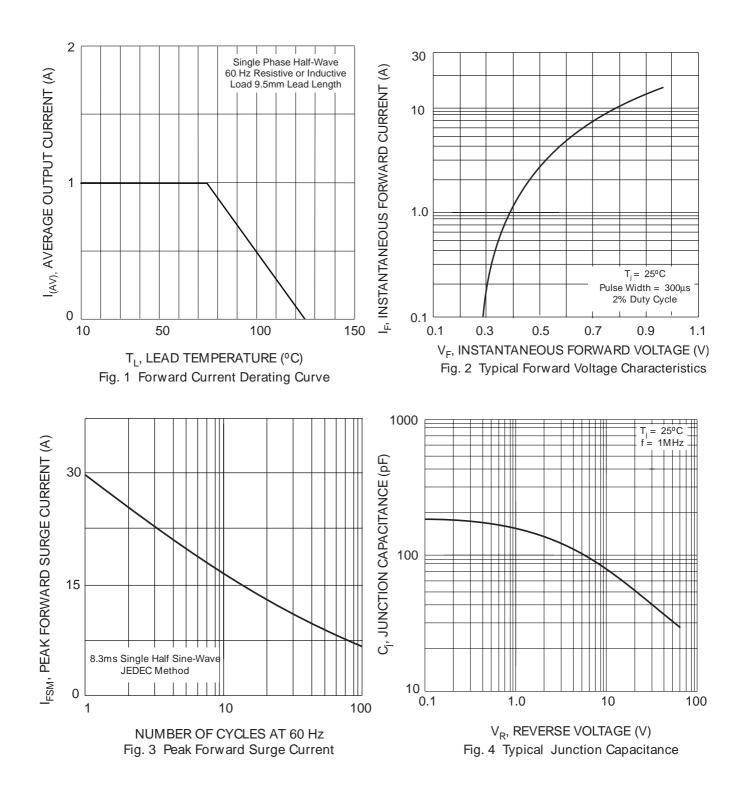
- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

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		
ш	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 @T_A=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 $@T_L = 75^{\circ}C$	ю		1.0		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		30		A
Forward Voltage $@I_F = 1.0A$	Vfm	0.38	0.38	0.40	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	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 5.0mm² (0.13mm thick) copper pad areas



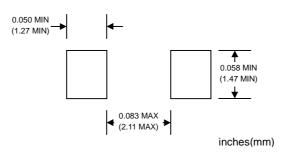
ORDERING INFORMATION

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

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.

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.