

Features

- Halogen Free. "Green" Device (Note 1)
- Low Power Losses, High Efficiency
- · Low profile package
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 45°C/W Junction to Case(Note 3)
- Typical Thermal Resistance: 90°C/W Junction to Ambient (Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS14HL	FM14	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

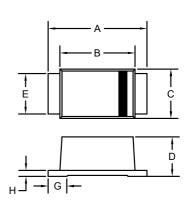
Average Forward Current	I _{F(AV)}	1.0A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	30A 60A	8.3ms,Half Sine Wave 1ms,Square Wave
Maximum Instantaneous Forward Voltage	V _F	0.55V 0.50V	I _F =1.0A;T _J =25°C I _F =1.0A;T _J =100°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.5mA 10mA	T _J =25°C T _J =100°C
Typical Junction Capacitance	Сл	45pF	Measured at 1.0MHz, V _R =4.0V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

- 2. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.
- 3. Mounted on P.C.B with 3mm*3mm copper pad areas.

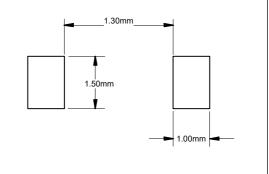
1 Amp Schottky Rectifier 40 Volts

SOD-323HL



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.091	0.106	2.30	2.70			
В	0.067	0.083	1.70	2.10			
С	0.041	0.057	1.05	1.45			
D	0.031	0.047	0.80	1.20			
E	0.035	0.045	0.90	1.15			
G	0.010	0.028	0.25	0.70			
Н	0.002	0.010	0.05	0.25			

Suggested Solder Pad Layout





Curve Characteristics

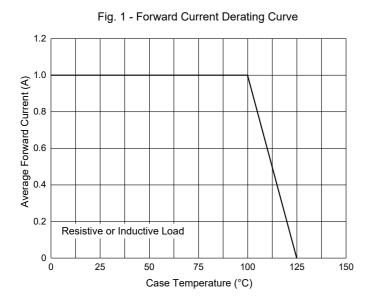
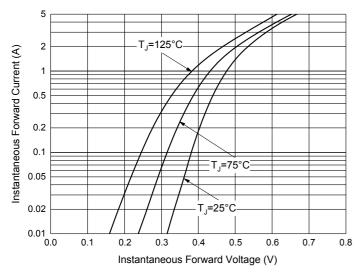


Fig. 3 - Typical Instantaneous Forward Characteristics



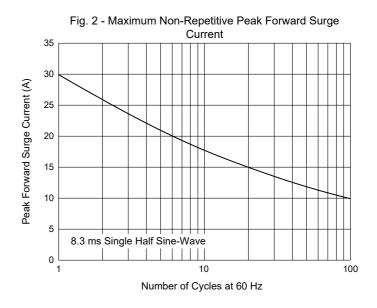
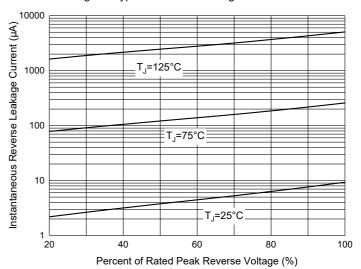


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

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