

**Features**

- Halogen Free. "Green" Device (Note 1)
- Low Power Losses, High Efficiency
- Low profile package
- Lead Free Finish/RoHS Compliant<sup>(Note 2)</sup> ("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<sup>(Note 3)</sup>
- Typical Thermal Resistance: 90°C/W Junction to Ambient<sup>(Note 3)</sup>

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

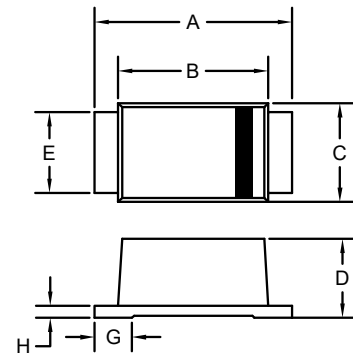
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	1.0A	$T_C=100^\circ\text{C}$
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	$I_F=1.0\text{A}; T_J=25^\circ\text{C}$ $I_F=1.0\text{A}; T_J=100^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5mA 10mA	$T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	45pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

- 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.

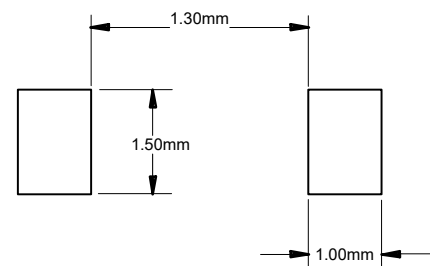
**1 Amp  
Schottky Rectifier  
40 Volts**

**SOD-323HL**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.091	0.106	2.30	2.70	
B	0.067	0.083	1.70	2.10	
C	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	
H	0.002	0.010	0.05	0.25	

**Suggested Solder Pad Layout**



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

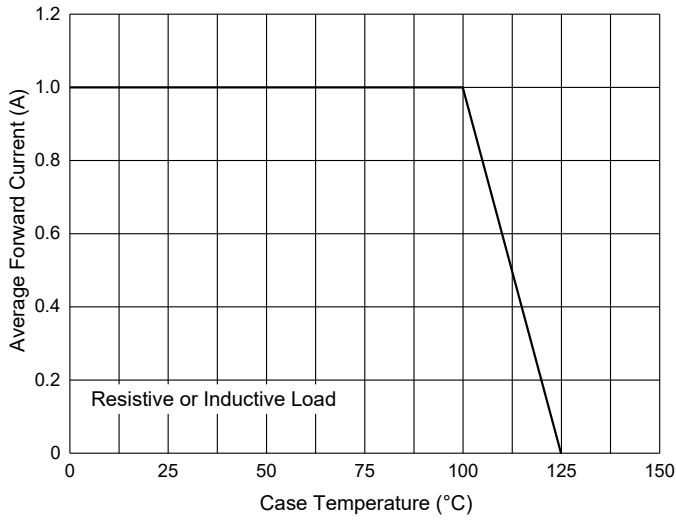


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

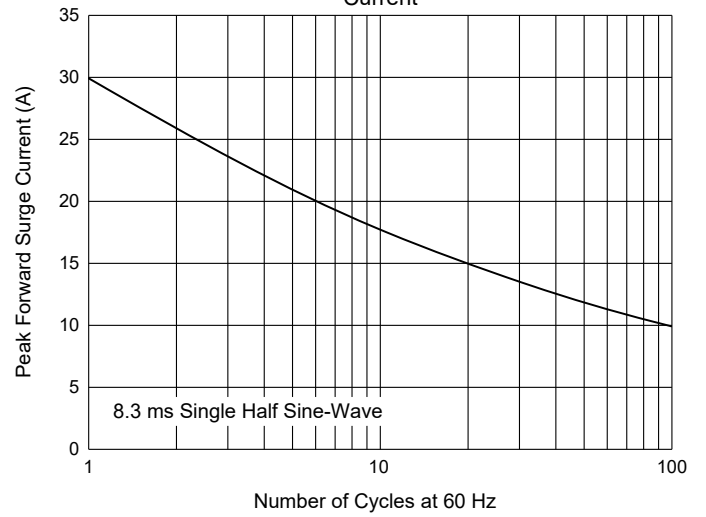


Fig. 3 - Typical Instantaneous Forward Characteristics

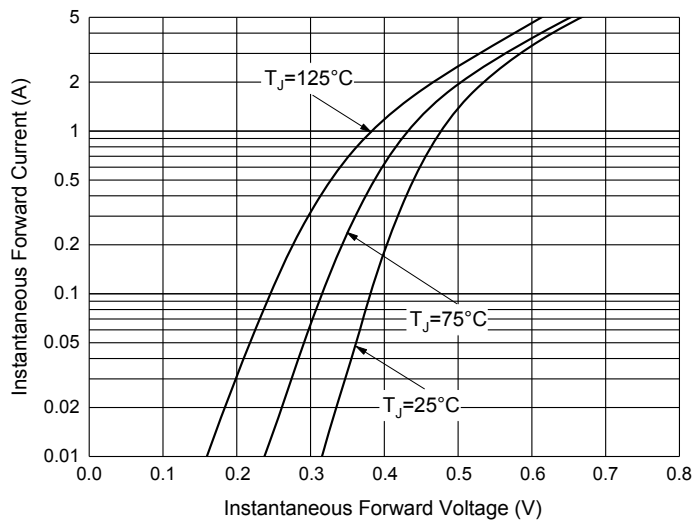
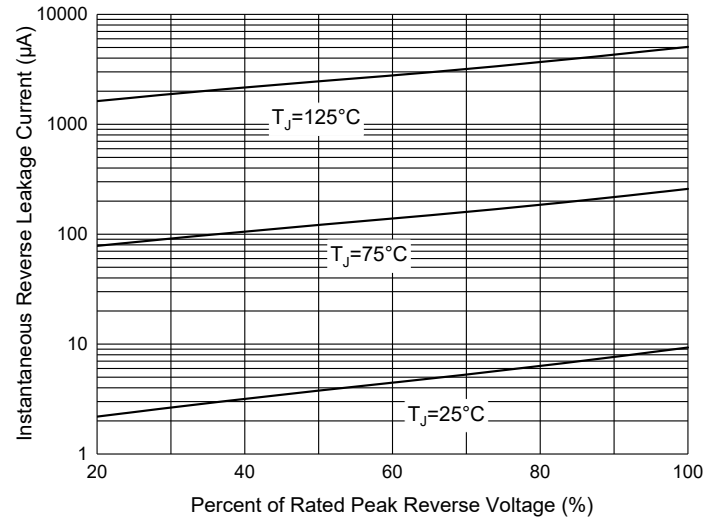


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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