

### Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Guard Ring Protection
- High Surge Capability
- For Use In Low Voltage, High Frequency Inverters
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### Maximum Ratings

- Operating Junction Temperature Range(SS14FH): -55°C to +125°C
- Operating Junction Temperature Range(SS16FH~SS1200FH): -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 80°C/W Junction to Ambient<sup>(Note 1)</sup>

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS14FH	14	40V	28V	40V
SS16FH	16	60V	42V	60V
SS1100FH	10	100V	70V	100V
SS1200FH	1J	200V	140V	200V

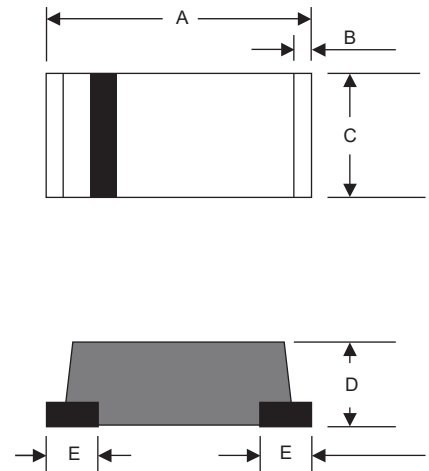
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	1.0A	See Fig 1
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms Single Half Sine-Wave
Maximum Instantaneous Forward Voltage	$V_F$	SS14FH 0.55V SS16FH 0.70V SS1100FH 0.85V SS1200FH 0.90V	$I_F=1.0A; T_J=25^\circ C$ $I_F=1.0A; T_J=25^\circ C$ $I_F=1.0A; T_J=25^\circ C$ $I_F=1.0A; T_J=25^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	SS14FH~SS1100FH 0.5mA 10mA SS1200FH 0.01mA 0.3mA	$T_J=25^\circ C$ $T_J=100^\circ C$ $T_J=25^\circ C$ $T_J=125^\circ C$

Note:1. Mounted on FR-4 PCB copper, minimum recommended pad layout.

# 1 Amp Schottky Barrier Rectifier 40~200 Volts

## SOD-323FH



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.091	0.106	2.30	2.70	
B	0.012		0.30		Typ.
C	0.041	0.057	1.05	1.45	
D	0.031	0.047	0.80	1.20	
E	0.016		0.40		Typ.

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

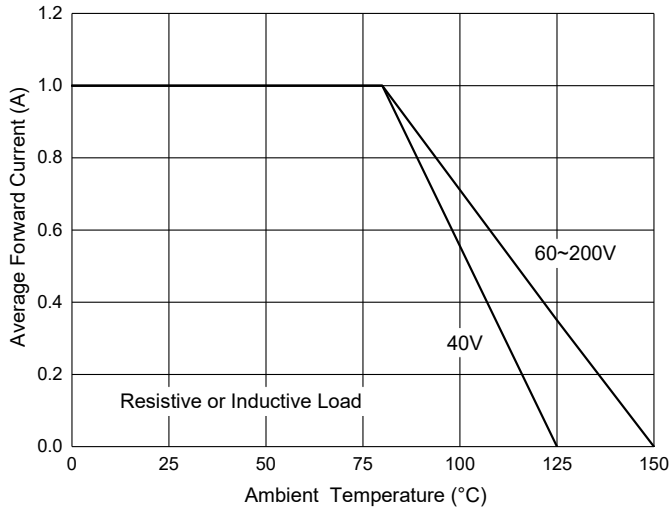


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

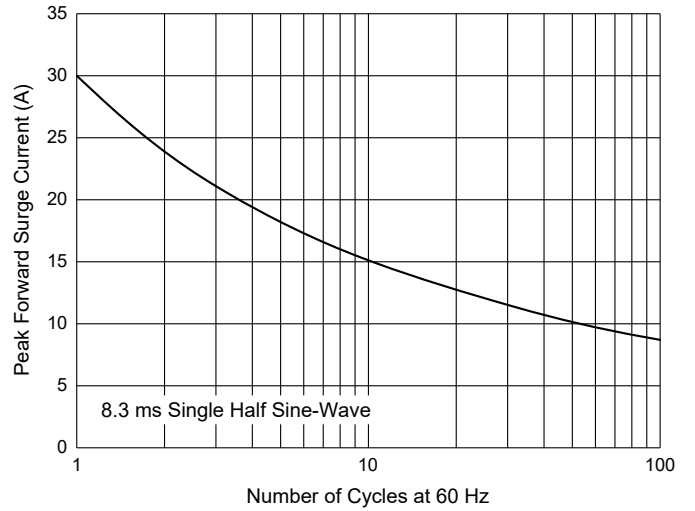


Fig. 3 - Typical Instantaneous Forward Characteristics

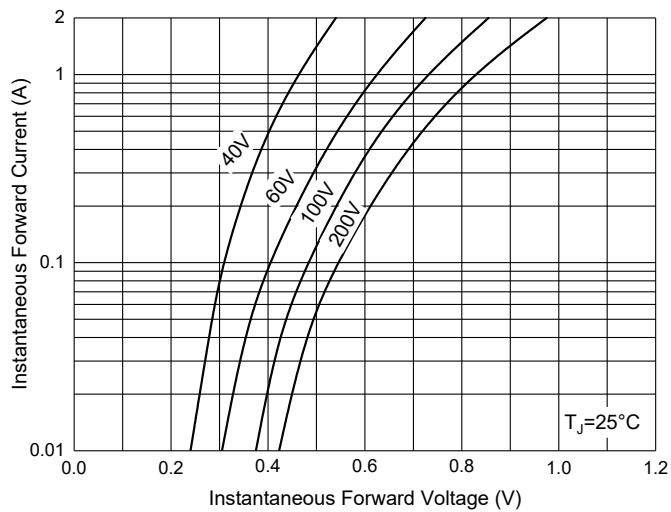


Fig. 4 - Typical Reverse Leakage Characteristics

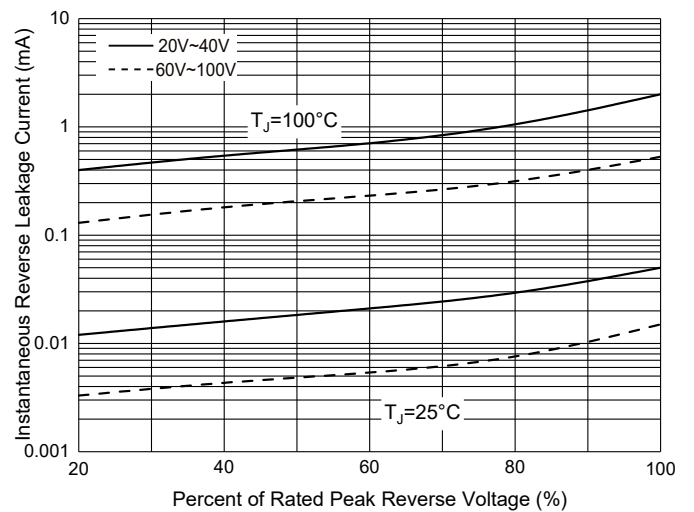
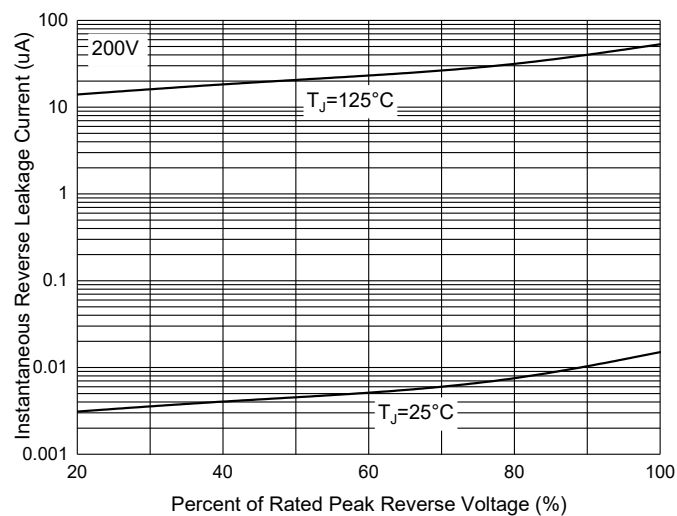


Fig. 5 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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