

## SMD110PL THRU SMD1200PL

### Features

- Halogen free available upon request by adding suffix "-HF"
- Schottky Barrier Rectifier
- High Current Capability
- Low Forward Voltage
- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 28°C/W Junction To Lead

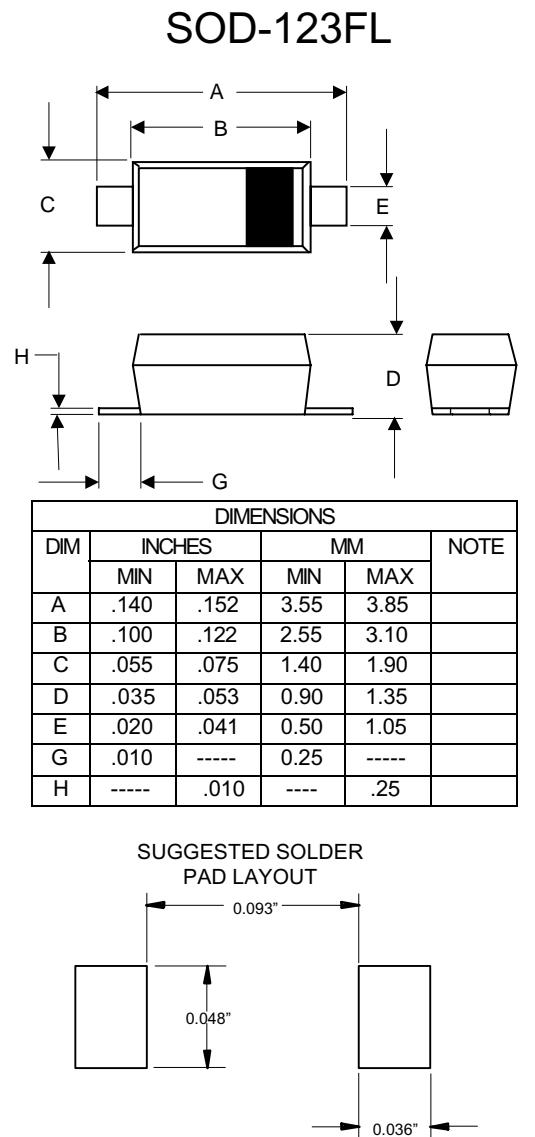
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD110PL	D10	100V	70V	100V
SMD1150PL	D15	150V	105V	150V
SMD1200PL	D20	200V	140V	200V

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

Average Forward Current	$I_{F(AV)}$	1.0A	$T_L = 90^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SMD110PL-1150PL SMD1200PL	$V_F$	.85V .95V	$I_{FM} = 1.0\text{A};$ $T_J = 25^\circ\text{C}$ (Note:2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 20mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	30pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

2. Pulse test: Pulse width 300 sec, Duty cycle 2%

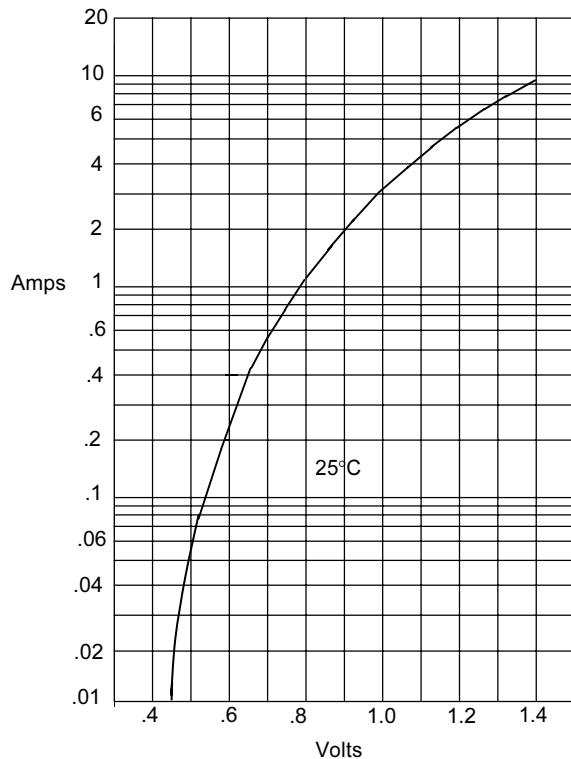


# SMD110PL thru SMD1200PL

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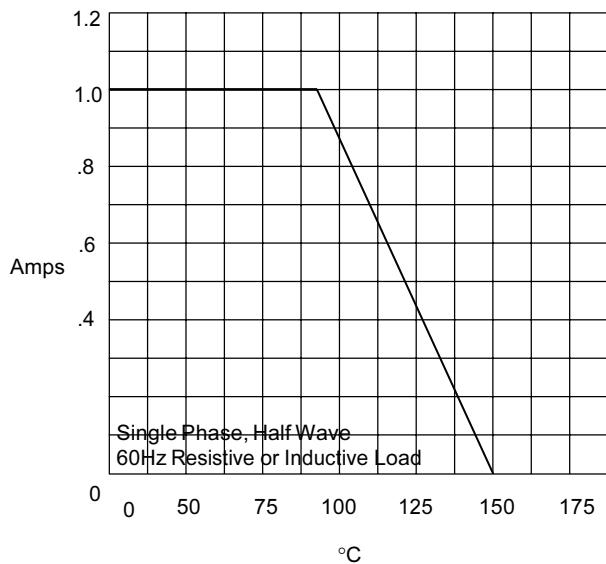
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Figure 1  
Typical Forward Characteristics



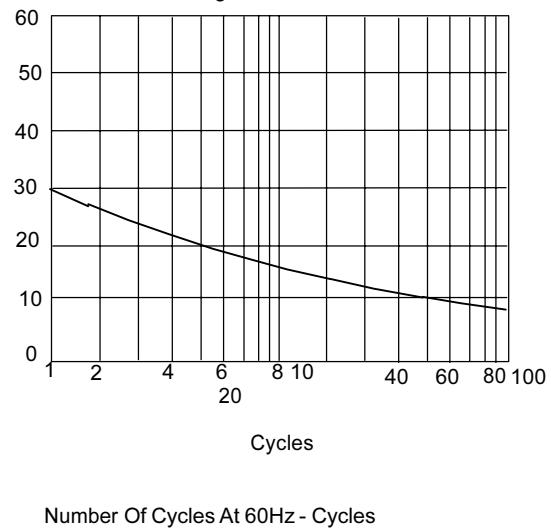
Instantaneous Forward Current - Amperesversus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperesversus  
Lead Temperature - °C

Figure 3  
Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

## Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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