

Micro Commercial Components



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SS12E THRU SS110E

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- 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	Maximum RMS	Maximum DC
Number		Voltage	Voltage	Blocking Voltage
SS12E	SS12	20V	14V	20V
SS13E	SS13	30V	21V	30V
SS14E	SS14	40V	28V	40V
SS15E	SS15	50V	35V	50V
SS16E	SS16	60V	42V	60V
SS18E	SS18	80V	56V	80V
SS110E	SS110	100V	70V	100V

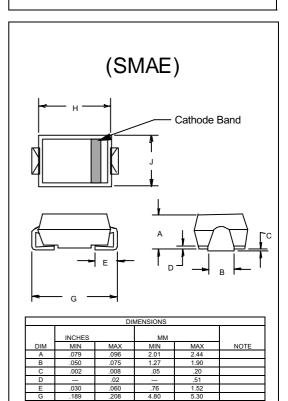
Electrical Characteristics @ 25°C Unless Otherwise Specified

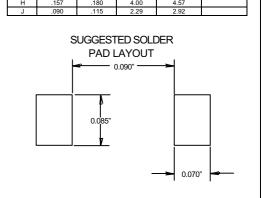
Average Forward Current	$I_{F(AV)}$	1.0A	T _L = 100°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum			
Instantaneous			
Forward Voltage			
	V_{F}		$I_{FM} = 1.0A;$
			$T_J = 25^{\circ}C^*$
SS12E~14E		.60V	
SS15E~16E		.70V	
SS18E-110E		.85V	
Maximum DC			
Reverse Current At	I_{R}	0.5mA	$T_A = 25^{\circ}C$
Rated DC Blocking		20mA	T _A = 100°C
Voltage			1
Typical Junction			
Capacitance			
SS12E - SS16E	C_{J}	110pF	Measured at
SS18E-SS110E		30pF	1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1 Amp Schottky Rectifier 20 to 100 Volts

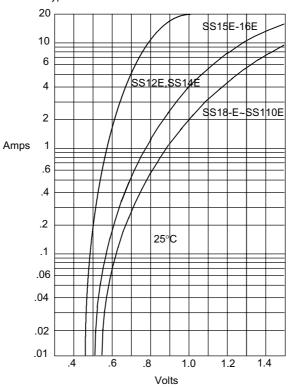




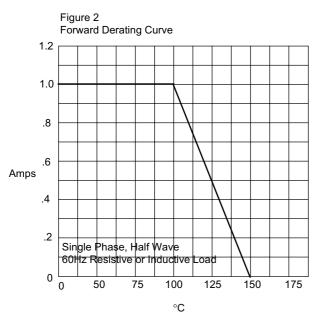
SS12E thru SS110E



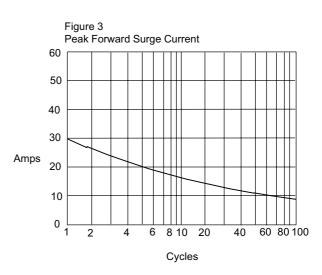
Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Lead Temperature -°C



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 6Kpcs/Reel	

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