

Micro Commercial Components



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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- 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

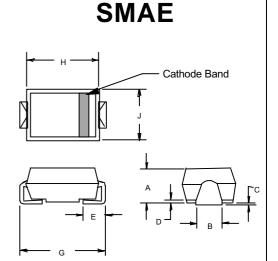
		90°C/W Junction To Ambient		
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	Ū	Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
SS12E	SS12	20V	14V	20V
SS13E	SS13	30V	21V	30V
SS14E	SS14	40V	28V	40V
SS15E	SS15	50V	35V	50V
SS16E	SS16	60V	42V	60V
SS18E	SS18	80V	56V	80V
SS110E	SS110	100V	70V	100V

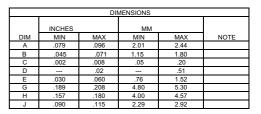
Electrical Characteristics @ 25°C Unless Otherwise Specified

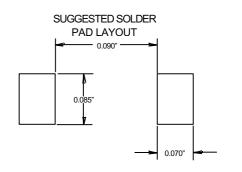
Average Forward	I _{F(AV)}	1.0A	$T_L = 100^{\circ}C$
Current			
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
_	VF		$I_{FM} = 1.0A;$
			T _J = 25°C*
SS12E~14E		.60V	
SS15E~16E		.70V	
SS18E-110E		.85V	
Maximum DC			
Reverse Current At	IR	0.5mA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

SS12E THRU SS110E

1 Amp Schottky Rectifier 20 to 100 Volts







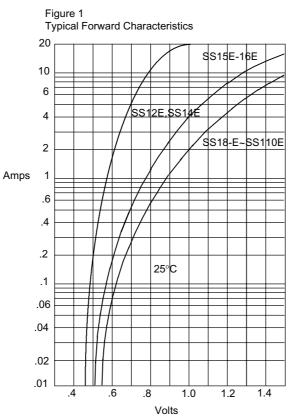
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

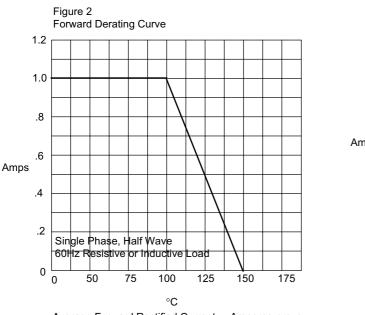
www.mccsemi.com



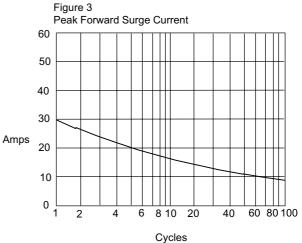
SS12E thru SS110E







Average Forward Rectified Current - Amperes/ersus Lead Temperature $\ \ \ \circ^{\rm C}$



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	

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

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Micro Commercial Components (MCC): <u>SS12E-TP</u> <u>SS16E-TP</u> <u>SS14E-TP</u> <u>SS15E-TP</u> <u>SS110E-TP</u>