

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SS12E THRU SS110E

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

MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number	Warking	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

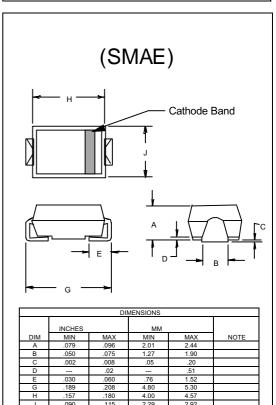
Electrical Characteristics @ 25°C Unless Otherwise Specified

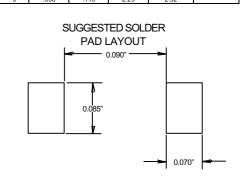
Average Forward Current	$I_{F(AV)}$	1.0A	T _L = 100°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F		I _{FM} = 1.0A; T _J = 25°C*
SS12E~14E SS15E~16E SS18E-110E		.60V .70V .85V	1j = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R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



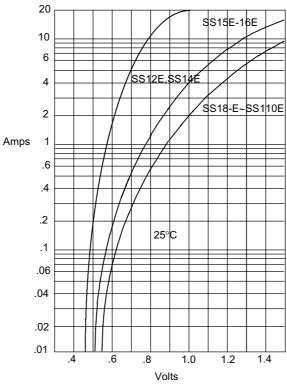


SS12E thru SS110E



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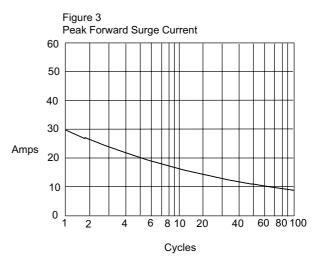




Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts

Figure 2 Forward Derating Curve 1.2 1.0 .8 .6 Amps .4 .2 Single Phase, Half Wave 60Hz Resistive or Inductive Load 0 50 100 125 175 ٥С

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



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



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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