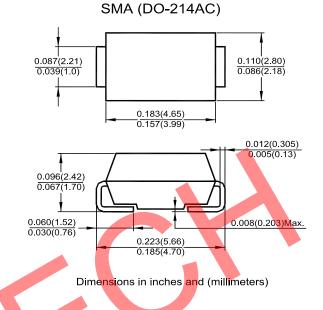
SS12 THRU SS110

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS Reverse Voltage - 20 to 100 V

Forward Current - 1 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · For surface mounted applications
- · Metal silicon junction, majority carrier conduction
- · Built-in strain relief, ideal for automated placement
- Low power loss, high efficiency.
- High forward surge current capability



Mechanical Data

- Case: SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- · Polarity: color band denotes cathode end

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS12	SS13	SS14	SS15	SS16	SS18	SS110	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	0.55 0.75				0	.85	V	
Maximum DC Reverse Current $T_a = 25^{\circ}C$	1	0.5							mA
at Rated DC Blocking Voltage $T_a = 100^{\circ}C$	I _R	20							
Typical Junction Capacitance 1)	Cj	110							pF
Typical Thermal Resistance ²⁾	R_{\thetaJA}	88						°C/W	
Operating Junction Temperature Range	Tj	- 55 to + 125							°C
Storage Temperature Range	T _{stg}	- 55 to + 150							°C

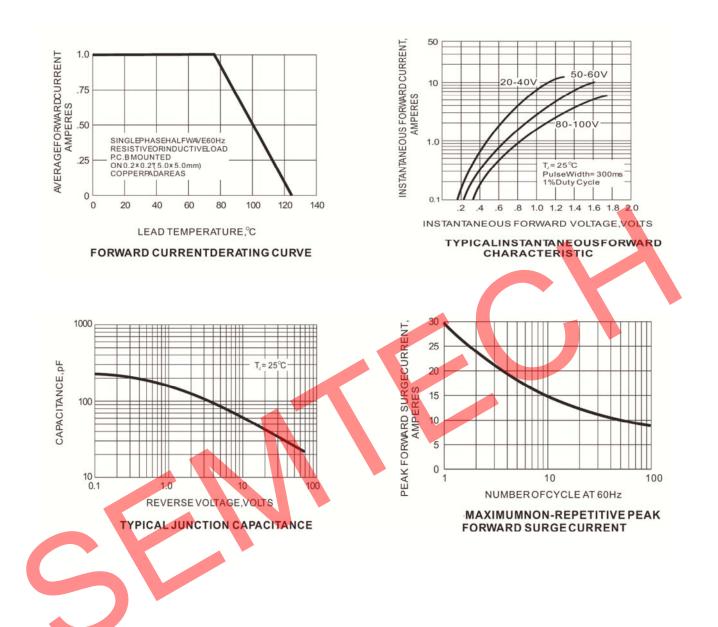
¹⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.

 $^{2)}$ P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.





Dated: 03/01/2015 Rev: 02









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