SS12D THRU SS110D

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

Forward Current - 1 A

Features

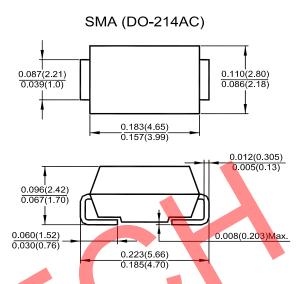
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · For surface mounted applications
- · Metal silicon junction, majority carrier conduction
- Built-in strain relief, ideal for automated placement
- · Low power loss, high efficiency.
- · High forward surge current capability

Mechanical Data

• Case: SMA (DO-214AC) molded plastic body

 Terminals: leads solderable per MIL-STD-750, Method 2026

· Polarity: color band denotes cathode end



Dimensions in inches and (millimeters)

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	SS12D	SS13D	SS14D	SS15D	SS16D	SS18D	SS110D	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	٧
Maximum Average Forward Rectified Current	I _{F(AV)}	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage at 1 A	V _F	0.55 0.75 0.85				.85	V		
Maximum DC Reverse Current T _a = 25°C		0.5							mA
at Rated DC Blocking Voltage T _a = 100°C	I _R	20							
Typical Junction Capacitance 1)	C _j	110							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	88						°C/W	
Operating Junction Temperature Range	T _j	- 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.













