

SS12D THRU SS110D

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

Forward Current - 1 A

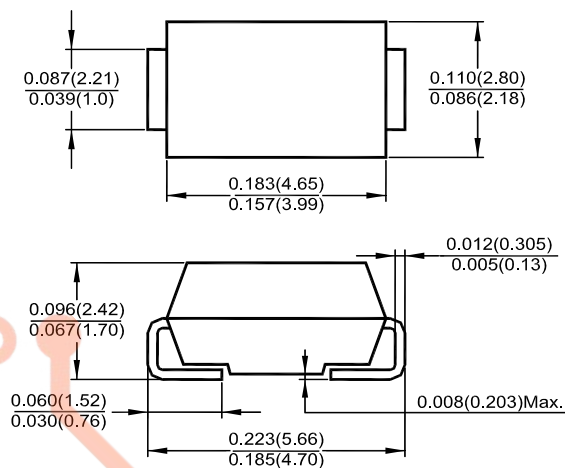
Features

- 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

SMA (DO-214AC)



Dimensions in inches and (millimeters)

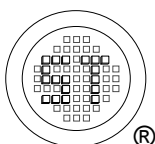
Maximum Ratings and Electrical Characteristics

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	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1 A	V _F	0.55			0.75		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.5							mA
		20							
Typical Junction Capacitance ¹⁾	C _j	110							pF
Typical Thermal Resistance ²⁾	R _{θJA}	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.

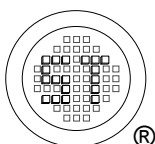
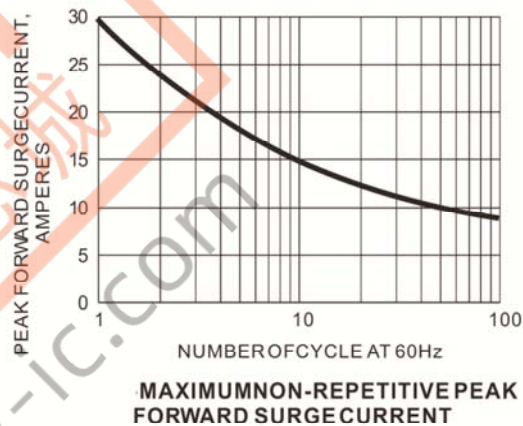
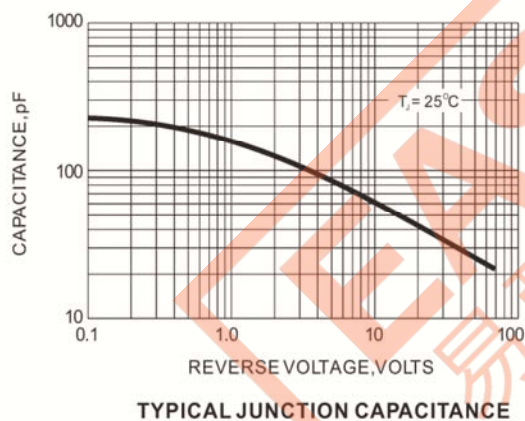
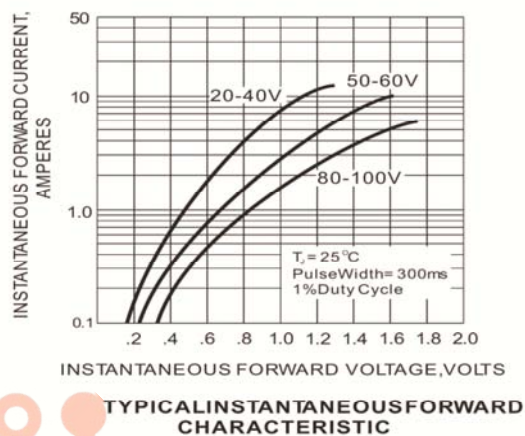
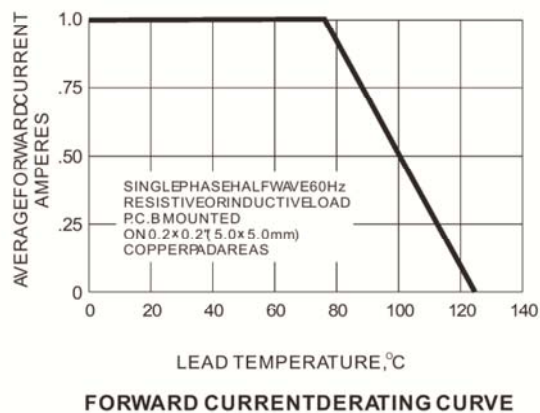
²⁾ P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



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SS12D THRU SS110D



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ISO 9001:2008
Certificate No. 180713000



ISO 14001:2004
Certificate No. 7116



ISO 9001:2008
Certificate No. 90719410



BS OHSAS 18001:2007
Certificate No. 7116



IECQ QC 080000
Certificate No. PRC-HSP4-1485-1