## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

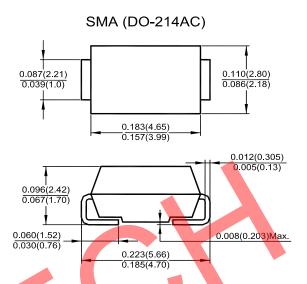
Forward Current - 1 A

## **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 %

capacitive load, derate by 20 70									
Parameter	Symbols	SS12	SS13	SS14	SS15	SS16	SS18	SS110	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	٧
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	٧
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	٧
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							Α
Maximum Instantaneous Forward Voltage at 1 A	$V_{F}$	0.55 0.75 0.85				.85	V		
Maximum DC Reverse Current T <sub>a</sub> = 25°C	ı	0.5							mA
at Rated DC Blocking Voltage T <sub>a</sub> = 100°C	I <sub>R</sub>	20							
Typical Junction Capacitance 1)	C <sub>j</sub>	110							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	88						°C/W	
Operating Junction Temperature Range	T <sub>j</sub>	- 55 to + 125							°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150							°C

<sup>1)</sup> Measured at 1MHz and applied reverse voltage of 4 V D.C.

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















