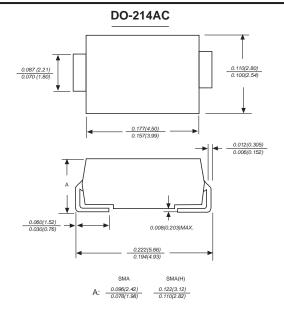
# **SS12 THRU SS110**

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Ampere



#### Dimensions in inches and (millimeters)

## **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

## **MECHANICAL DATA**

**Case**: JEDEC DO-214AC molded plastic body **Terminals**: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

0.004 ounce, 0.111 grams SMA(H)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

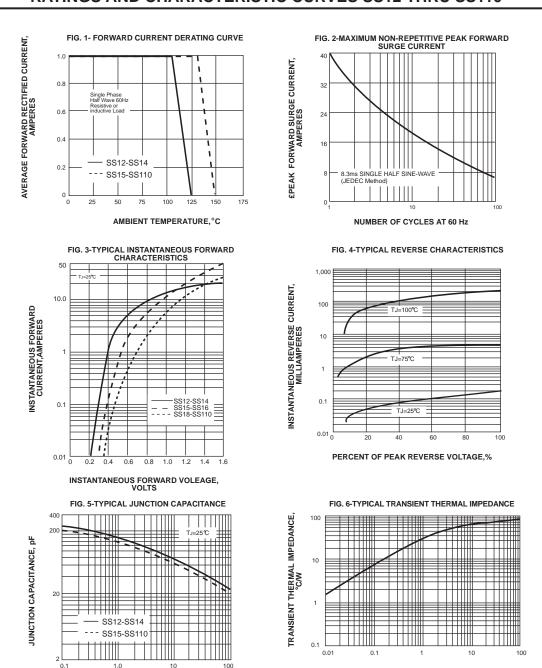
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at TL(see fig.1)	l(AV)	1.0						Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	40.0						Amps	
Maximum instantaneous forward voltage at 1.0A	VF	0.45	0.55		0.70		0.85		Volts
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=100℃	lr	6.0			0.5			mA	
Typical junction capacitance (NOTE 1)	Cı	110		90				pF	
Typical thermal resistance (NOTE 2)	Rqja	88.0					°C/W		
Operating junction temperature range	TJ,	-65 to +125		-65 to +150			°C		
Storage temperature range	Тѕтс	-65 to +150						°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

# **RATINGS AND CHARACTERISTIC CURVES SS12 THRU SS110**



t,PULSE DURATION,sec.

REVERSE VOLTAGE, VOLTS