

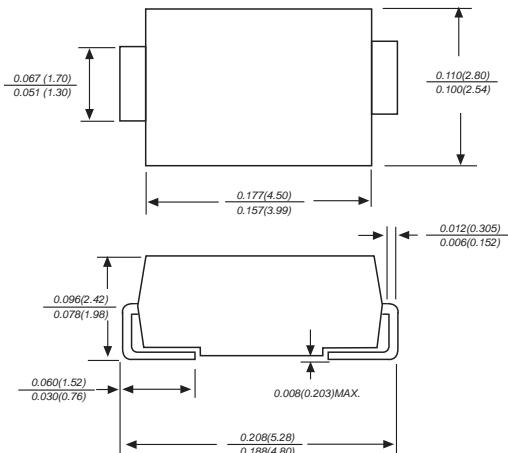


SS52 THRU SS5200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Amperes

DO-214AC/SMA



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ 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: 0.002 ounce, 0.07 grams

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%.

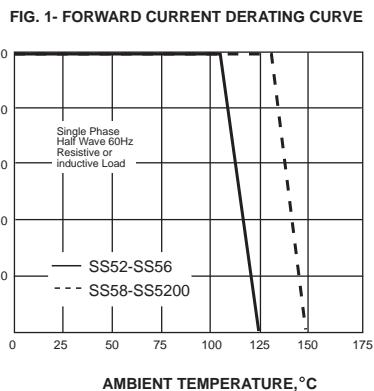
MDD Catalog Number	SYMBOLS	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS5150	SS5200	UNITS						
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS						
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	150	VOLTS						
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS						
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	5.0								Amps							
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125.0								Amps							
Maximum instantaneous forward voltage at 5.0A	V _F	0.55		0.70		0.85		0.95	Volts								
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	0.5				0.2				mA							
Typical junction capacitance (NOTE 1)	C _J	200								pF							
	R _{0JA}	50.0								°C/W							
Operating junction temperature range	T _J	-50 to +125				-50 to +150				°C							
Storage temperature range	T _{STG}	-50 to +150								°C							

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

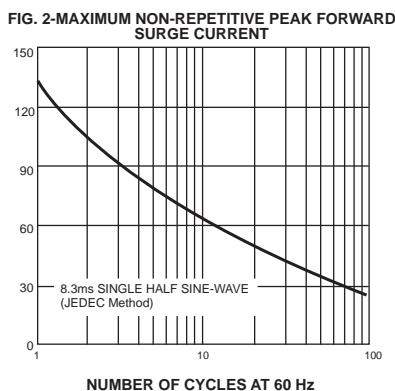
2. P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS52 THRU SS5200

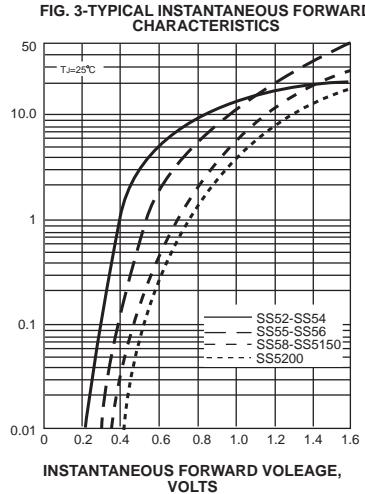
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



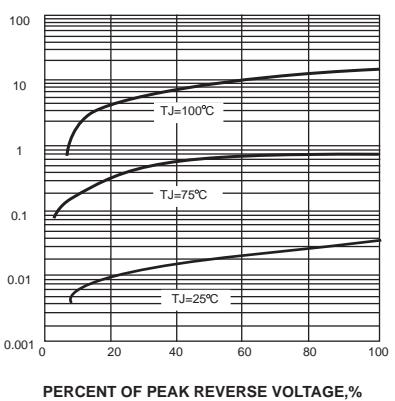
PEAK FORWARD SURGE CURRENT,
AMPERES



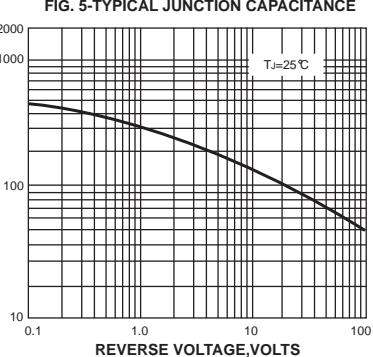
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

