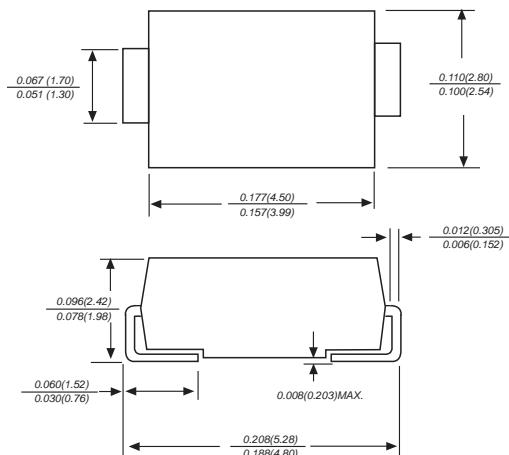


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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	SS52X	SS53X	SS54X	SS55X	SS56X	SS58X	SS510X	SS5150X	SS5200X	UNITS						
Marking code		SS52X	SS53X	SS54X	SS55X	SS56X	SS58X	SS510X	SS5150X	SS5200X							
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}	150.0								Amps							
Maximum instantaneous forward voltage at 5.0A	V _F	0.55		0.70		0.85		0.95	Volts								
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5				0.2				mA							
Typical junction capacitance (NOTE 1)	C _J	200								pF							
Typical thermal resistance (NOTE 2)	R _{θJA}	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



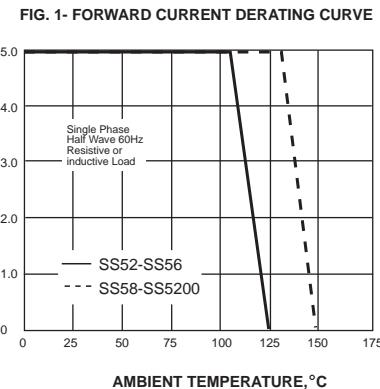
JYELECTRONICS®

SS52X THRU SS5200X

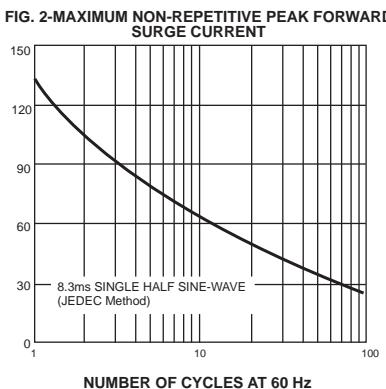
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

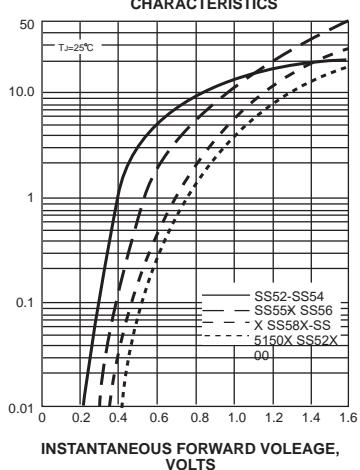
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



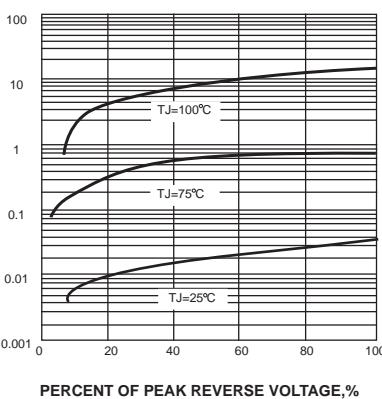
PEAK FORWARD SURGE CURRENT,
AMPERES



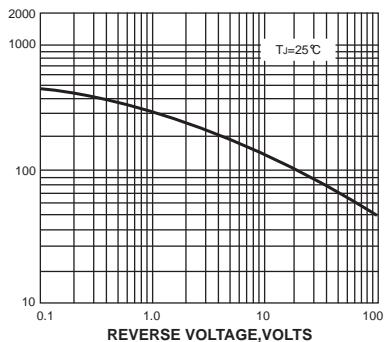
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

