

5.0 Amp SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

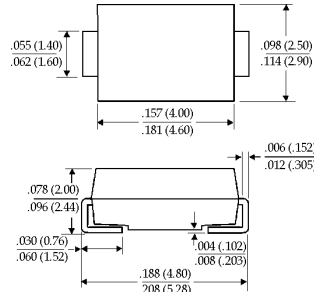
SS51A...SS52A Series

Description



**DO-214AC
(SMA)**

Mechanical Dimensions



Dimensions in inches and (millimeters)

Features

- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic SMA/DO-214AC
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Polarity: Color band denotes cathode end
- ★ Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYBMOL	SS51A	SS52A	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	V
Maximum RMS Voltage	VRMS	14	28	V
Maximum DC Blocking Voltage	VDC	20	40	V
Maximum Average Forward Rectified Current TL=100°C	I(AV)	5.0		A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80		A
Maximum Instantaneous Forward Voltage @ 5.0 A	VF	0.55		V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=100°C	IR	1.0 50		mA
Typical junction Capacitance (Note 1)	CJ	300		pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +125 / -55 to +150		°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

FIG.1 - FORWARD CURRENT DERATING CURVE

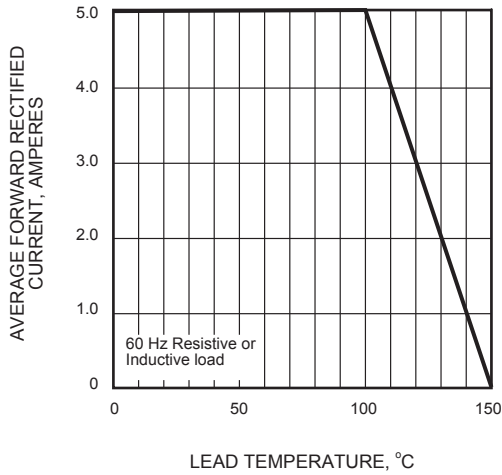


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

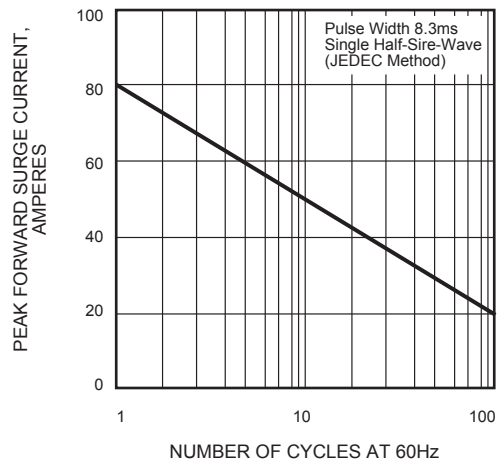


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

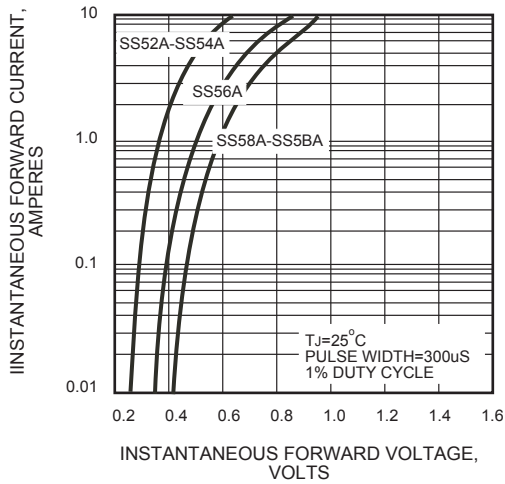


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

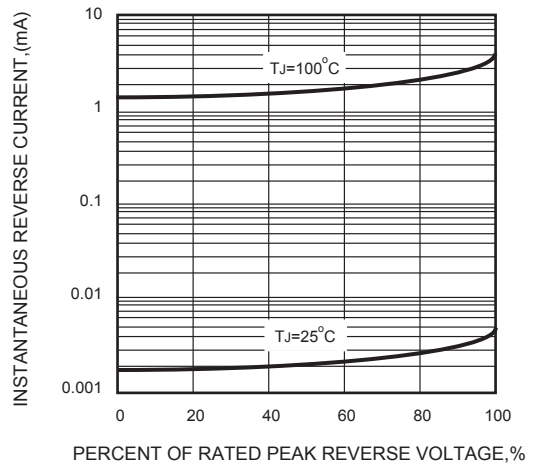


FIG.5 - TYPICAL JUNCTION CAPACITANCE

