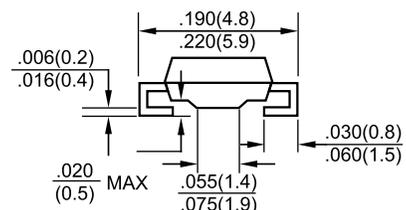
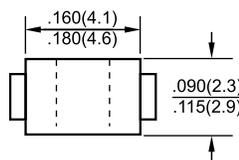


FEATURES

- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- Guard ring for over-voltage protection
- Also available in SMB (Suffix B) and SMC (No Suffix) sizes



DO-214AC (SMA)
Dimensions in inches and (millimeters)

MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 16mm tape EIA STD RS - 4 8 1
- Weight: 0.064 grams

MAXIMUM RATINGS & 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%

Parameter	Symbol	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	SS315A	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	80	90	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	63	70	105	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	150	V
Maximum Average Forward Rectified Current @ TL = 90°C	IF(AV)	3.0									A
Peak Forward Surge Current 8.3ms Single Half-Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	100			70						A
Maximum Instantaneous Forward Voltage IF = 3.0A @ 25°C @ 1 00°C	VF	0.5 0.4		0.75 0.65		0.85 0.70		0.95 0.80		V	
Maximum DC Reverse Current @ TA = 25°C at rated DC Blocking Voltage @ TA = 125°C	IR	0.5				0.1		0.5			mA
Typical Thermal Resistance Junction to Lead (Note)	ROJA ROJL	88 28									°C / W
Operating Temperature Range	TJ	-55 to +125			-55 to +150						°C
Storage Temperature Range	TSTG	-55 to +150									°C

Note: Pulse Test Width: 300 µSec, 1% Duty Cycle.

RATING & CHARACTERISTIC CURVES

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

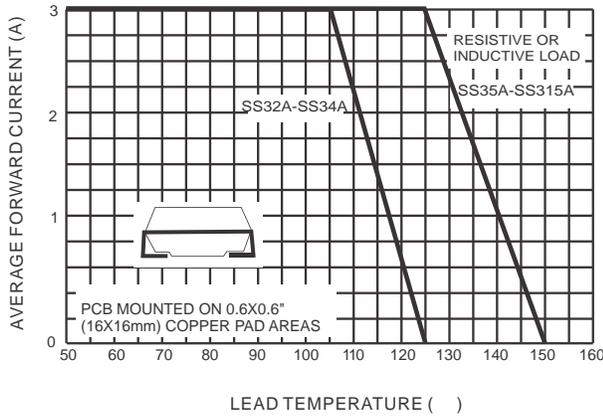


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

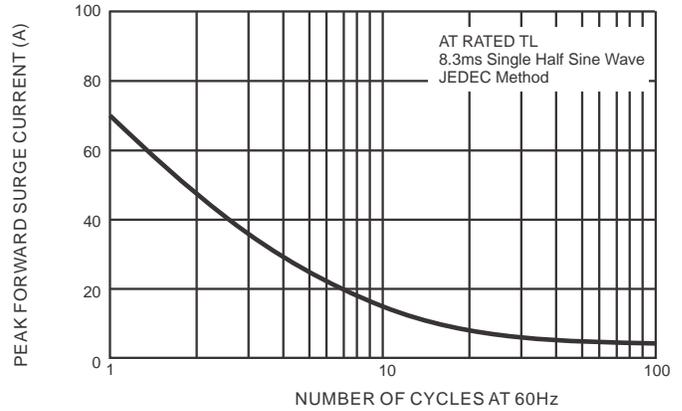


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

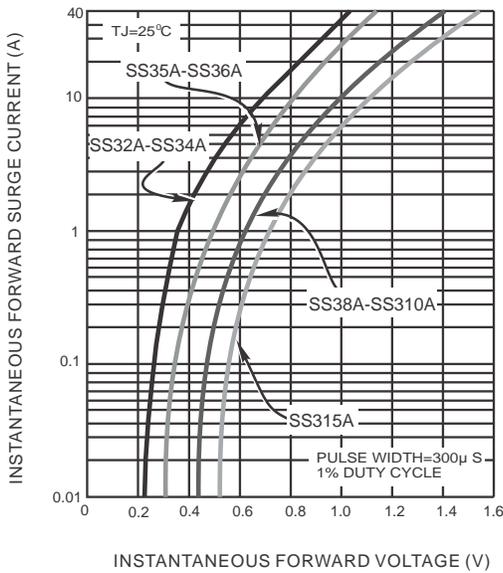


FIG.4-TYPICAL REVERSE CHARACTERISTICS

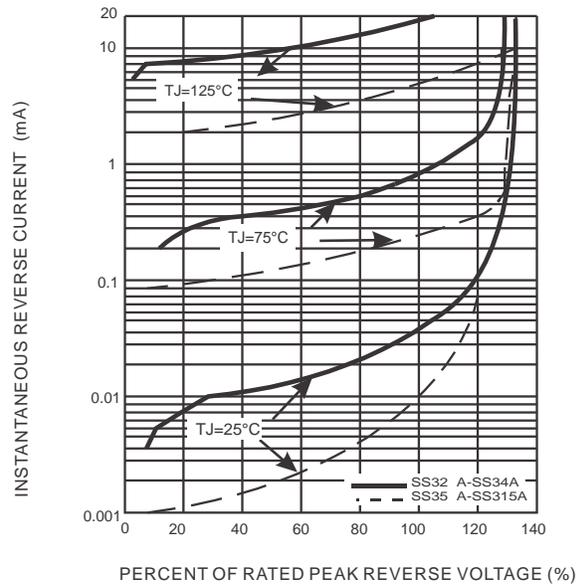


FIG.5-TYPICAL JUNCTION CAPACITANCE

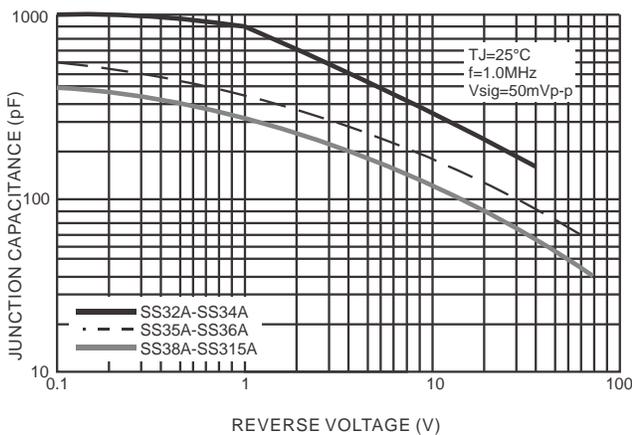


FIG.6-TYPICAL TRANSIENT THERMAL CHARACTERISTICS

