

### SS32 THRU SS320

CURRENT 3.0 A  
VOLTAGE 20 to 200 V

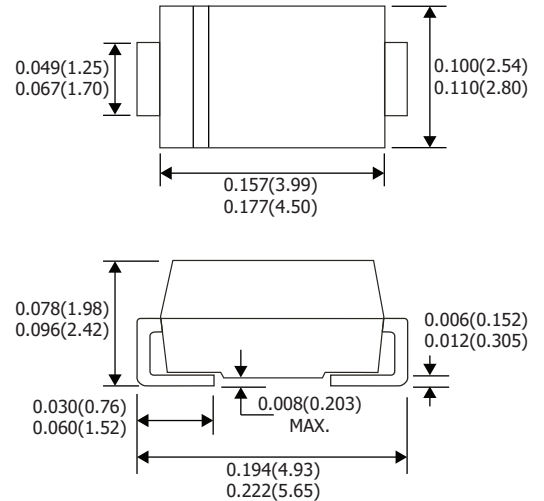
#### Features

- Low profile package
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering :  
260°C/10 seconds at terminals
- Component in accordance  
RoHS 2011/65/EU and WEEE 2002/96/EC

#### Mechanical Data

- Case : JEDEC DO-214AC(SMA) Molding compound meets UL 94 V-0 flammability rating
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Laser band denotes cathode end

#### DO-214AC (SMA)



Dimensions in inches and (millimeters)

#### Maximum Ratings and Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Items	Symbols	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at T <sub>L</sub> (see Fig.1)	I <sub>F(AV)</sub>	3.0									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100									A
Instantaneous forward voltage at I <sub>F</sub> =3.0A <sup>(1)</sup>	V <sub>F</sub>	0.50	0.55	0.70			0.85	0.95		V	
Reverse current V <sub>R</sub> =V <sub>DC</sub>	T <sub>J</sub> =25°C	0.5									mA
	T <sub>J</sub> =100°C	50									
Thermal resistance from junction to lead <sup>(2)</sup>	R <sub>θJL</sub>	35									°C/W
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-65 to +125					-65 to +150				°C

#### Notes:

(1) Pulse test:300μs pulse width,1% duty cycle.

(2) Mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

## RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320

FIG.1-FORWARD CURRENT DERATING CURVE

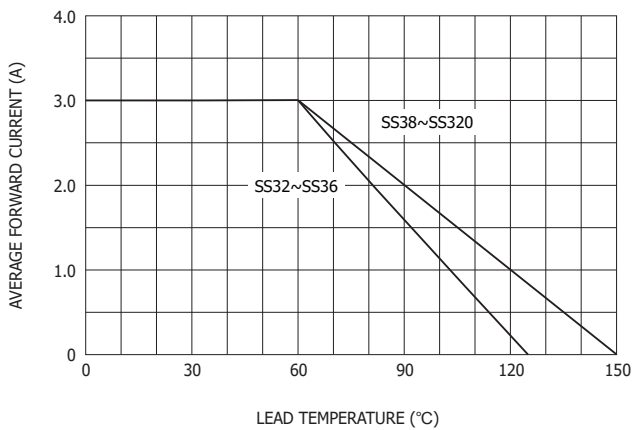


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

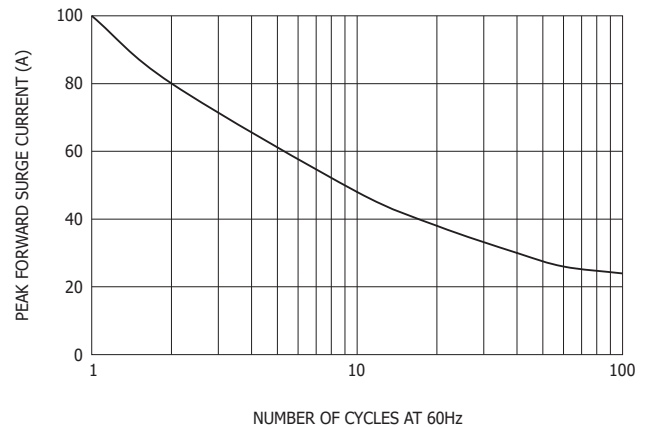


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

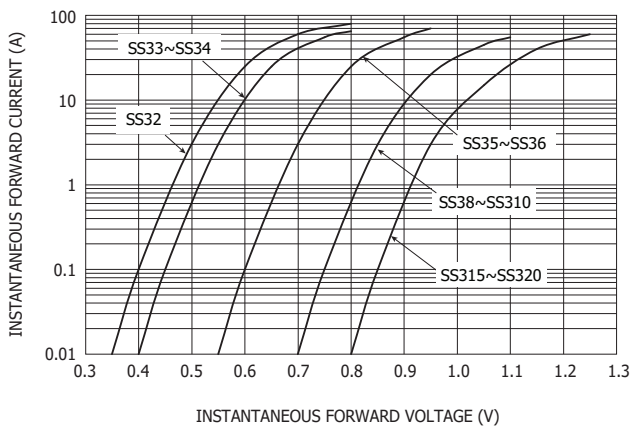


FIG.4-TYPICAL REVERSE CHARACTERISTICS

