

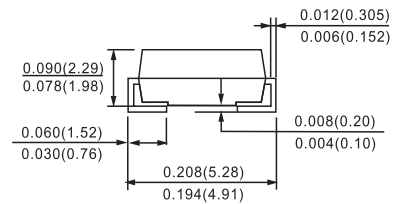
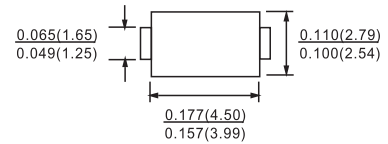
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

20V-100V 2.0A

FEATURES

- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

DO-214AC(SMA)



Dimensions in inches and (millimeters)

MECHANICAL DATA
Case: DO-214AC (SMA)

Epoxy meets UL 94V-0 flammability rating

Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102

E3 suffix for consumer grade, meets JESD 201 class

1A whisker test, HE3 suffix for high reliability grade

(AEC Q101 qualified), meets JESD 201 class 2 whisker test

Polarity: Color band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	UNITS
		SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	
Device marking code		SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V_{RWS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	2.0								A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	75								A
Maximum instantaneous forward voltage at $I_{FM}=2.0\text{A}$ (NOTE1)	V_F	0.50			0.75		0.85			V
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$	I_R	0.4				0.03				m A
		10				5.0				
Maximum thermal resistance	$R_{\theta JL}$	28								°C/W
Operating temperature range	T_J	-55 ---- +125								°C
Storage temperature range	T_{STG}	-55 ---- +150								°C

RATINGS AND CHARACTERISTIC CURVES

SS22 THRU SS210

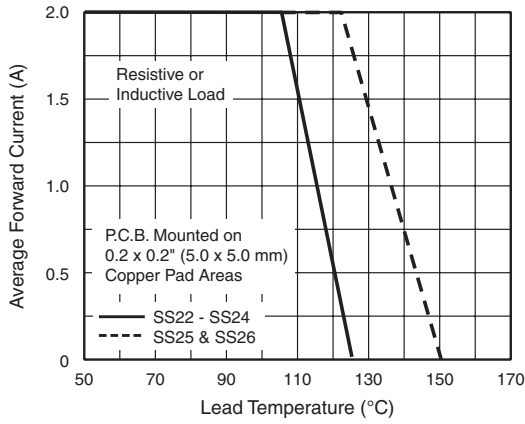


Figure 1. Forward Current Derating Curve

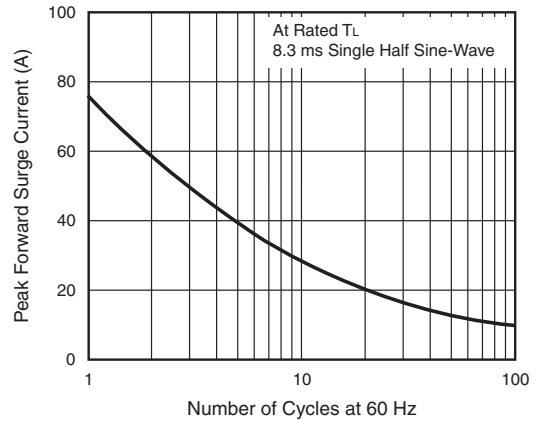


Figure 2. Maximum Non-Repetitive Surge Current

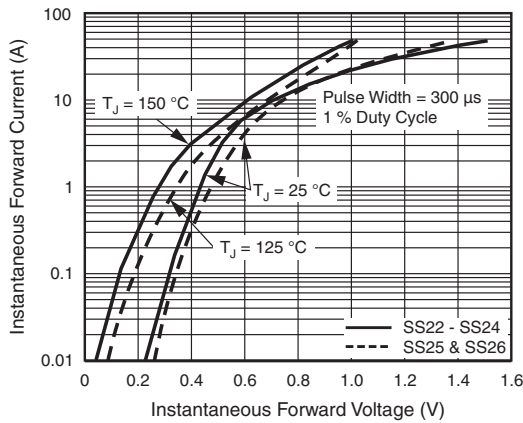


Figure 3. Typical Instantaneous Forward Characteristics

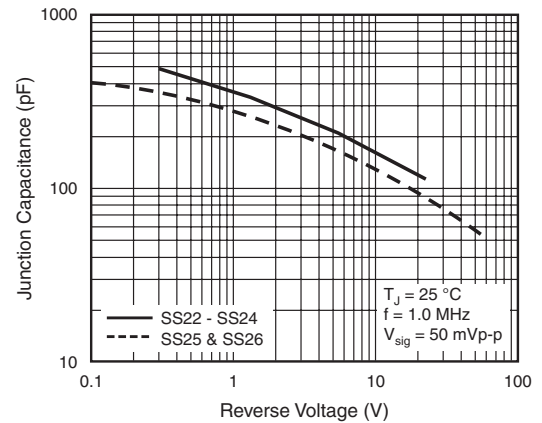


Figure 5. Typical Junction Capacitance

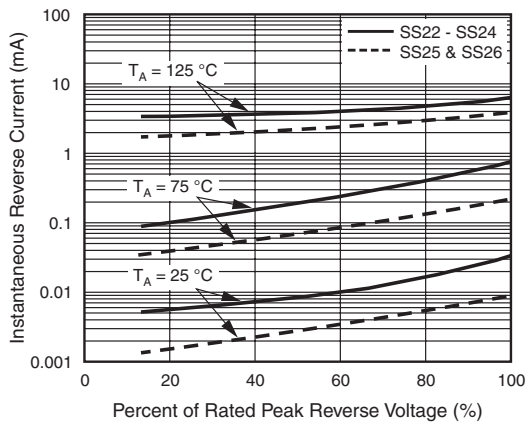


Figure 4. Typical Reverse Current Characteristics