Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

SS32A-SS3100A

FEATURES

Guarding protection

Low forward voltage

Reverse energy tested

High current capability

Extremely low thermal resistance

MECHANICAL DATA

Case: SMA Molded plastic

Epoxy: UL94V-O rate flame retardant

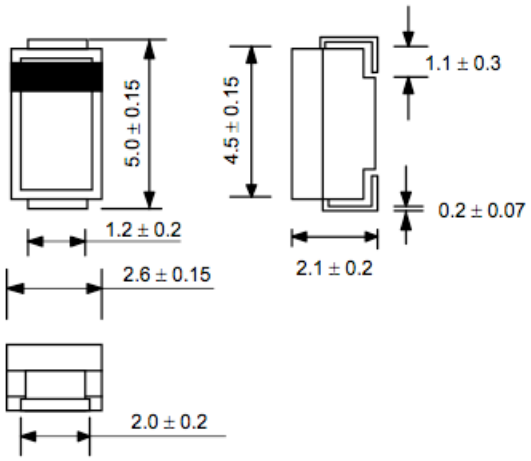
Lead: Lead Formed for Surface Mount

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.067 gram

SMA (DO-214AC)



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

		SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	UNITS
Device marking code		SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	
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℃	$I_{F(AV)}$	3.0								A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	80								A
Maximum instantaneous forward voltage at I_{FM}=1.0A (NOTE1)	V_F	0.50			0.75		0.85			V
Maximum DC reverse current TJ=25℃	I_R	0.5								mA
		20.0								
Maximum thermal resistance	$R_{\theta Jc}$	10								℃/W
Operating temperature range	T_J	-55----+125								℃
Storage temperature range	T_{STG}	-55----+150								℃

NOTE：

1.Pulse test: Pulse width 300us, duty cycle 1%

Ratings and Characteristic Curves

FIG. 1 FORWARD DERATING CURVE

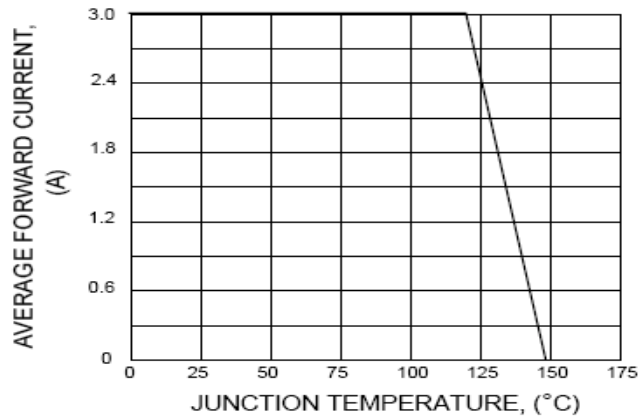


FIG. 2 PEAK FORWARD SURGE CURRENT

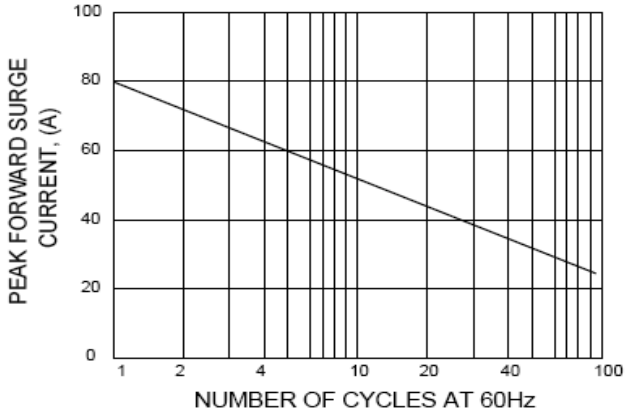


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

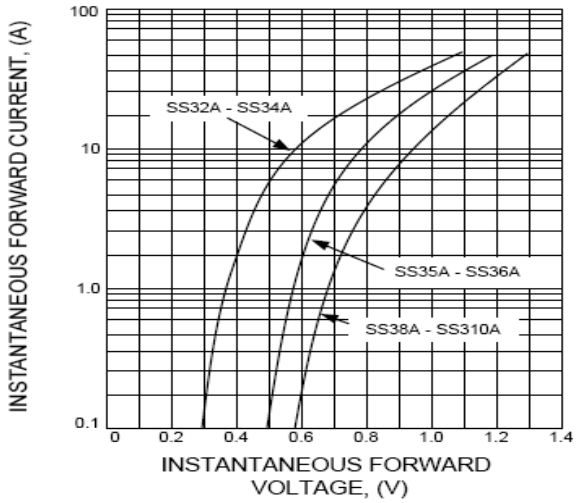


FIG. 4 TYPICAL REVERSE CHARACTERISTICS