



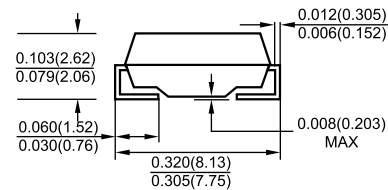
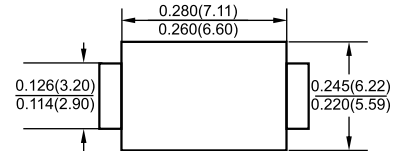
## SMC/DO-214AB

### Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

### Mechanical Data

- ✧ Case: SMC molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.007 ounces, 0.21 gram



Dimensions in inches and (millimeters)

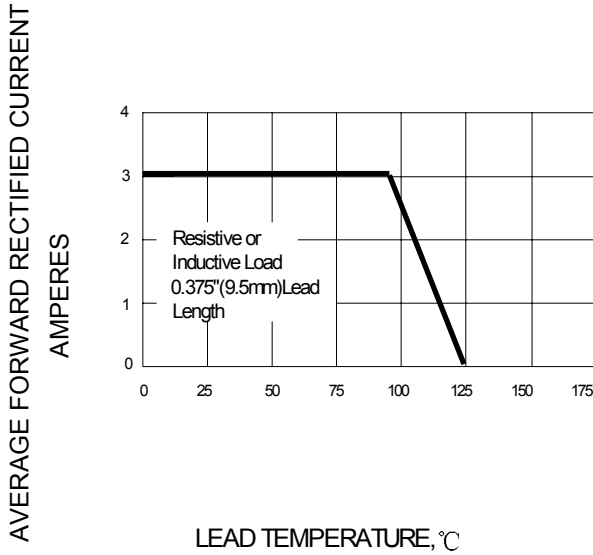
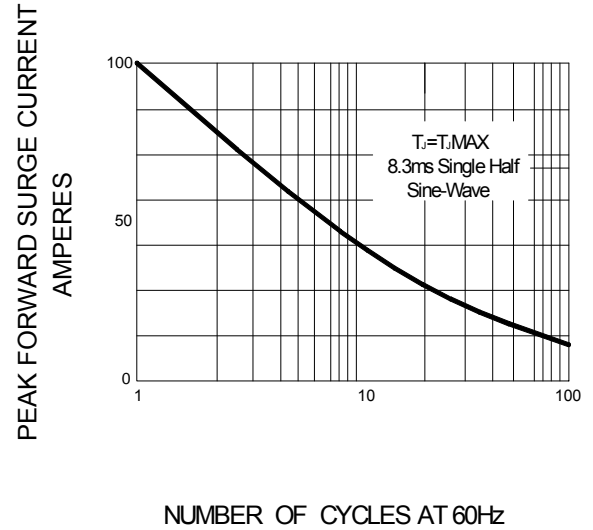
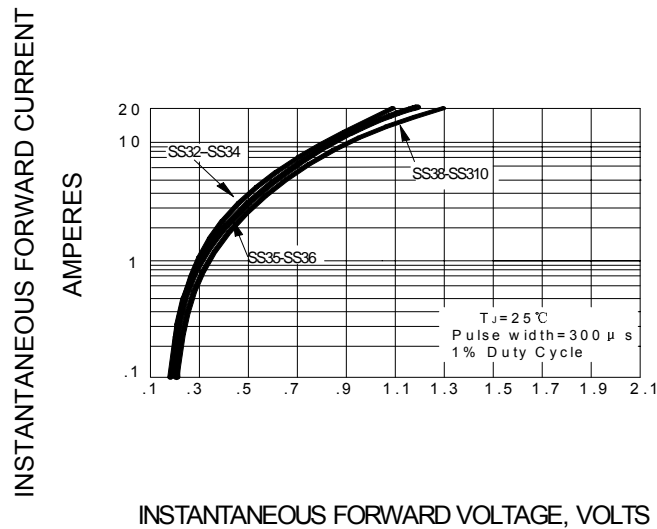
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Device marking code		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	UNITS
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 $T_L=90^\circ\text{C}$	$I_{F(AV)}$	3.0								A
Peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	100.0								A
Maximum instantaneous forward voltage at $I_{FM}=3.0\text{A}$ (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 $T_J=125^\circ\text{C}$	$I_R$	0.5								m A
		20				10				
Maximum thermal resistance	$R_{\theta JL}$	17.0								$^\circ\text{C/W}$
Operating temperature range	$T_J$	- 55 ---- +125								$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- +150								$^\circ\text{C}$

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 INSTANTANEOUS FORWARD CHARACTERISTICS**


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMC	3000/REEL	42000	36X36X36.5	18.50	15.50