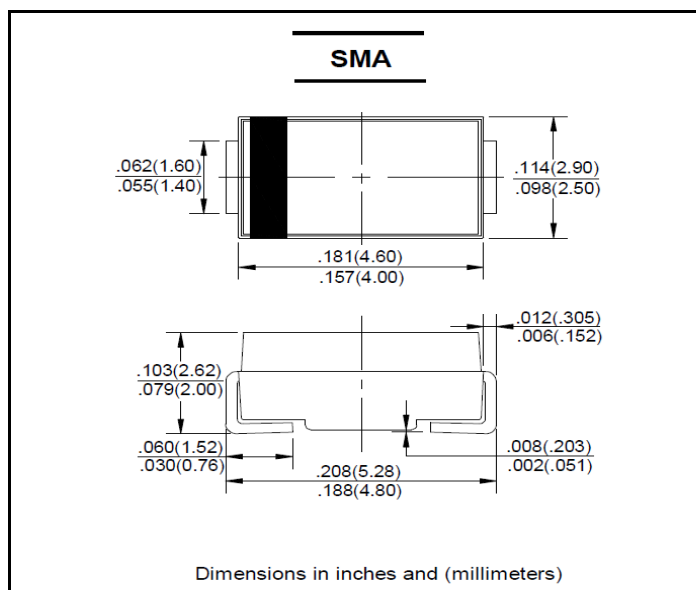



FEATURES

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

MECHANICAL DATA

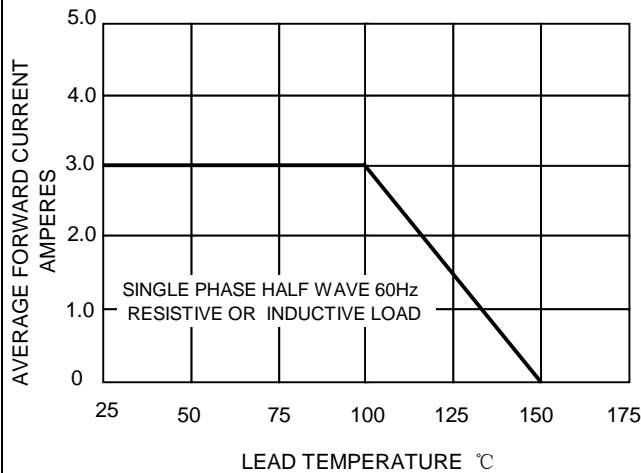
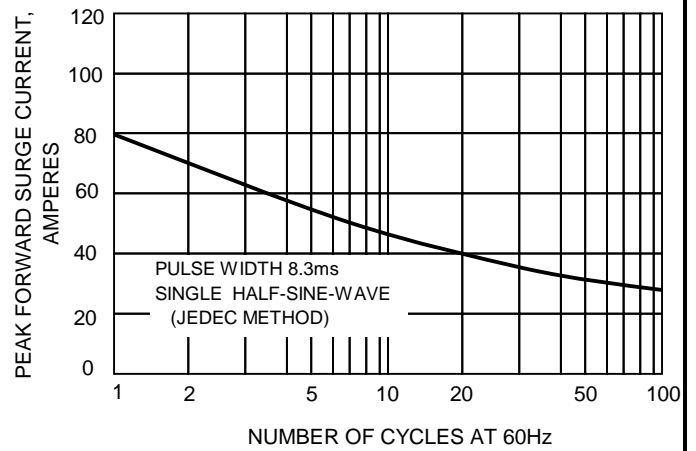
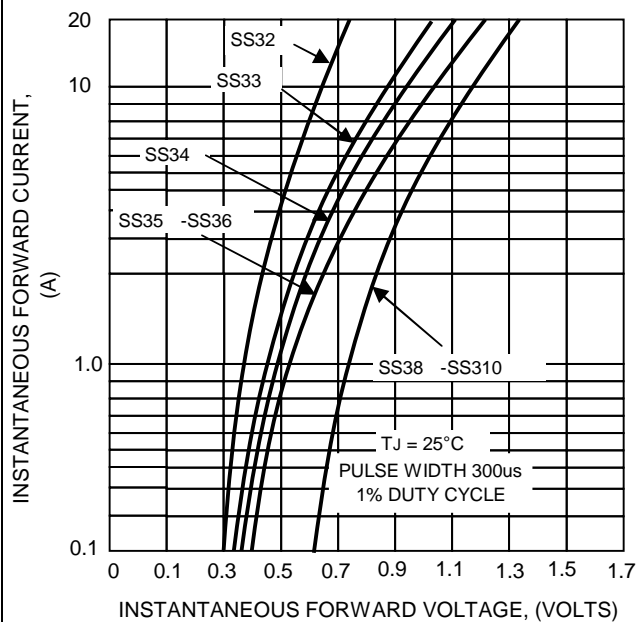
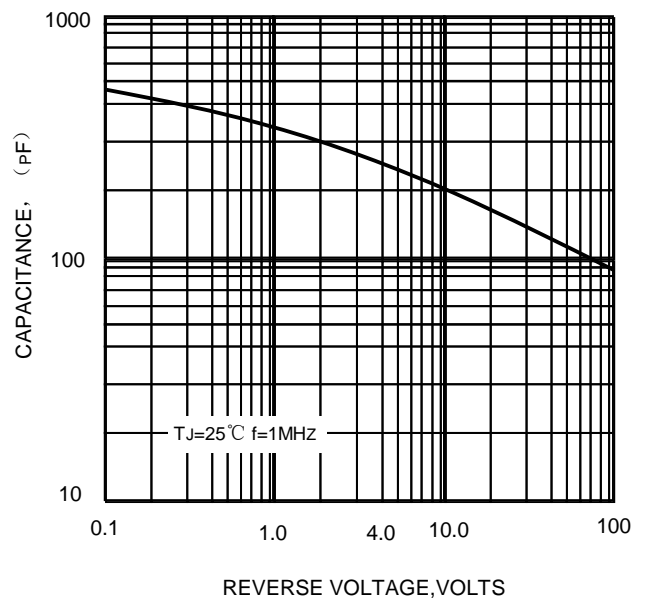
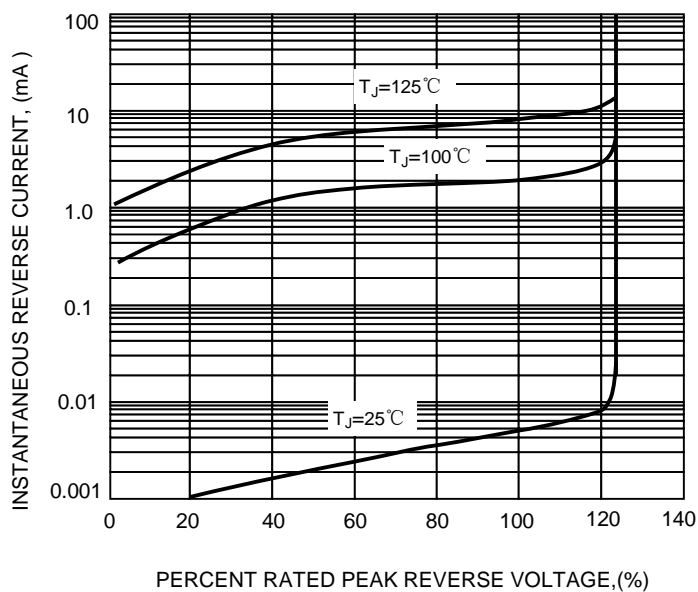
- Case: SMA molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: ANY
- Weight: 0.002 ounces, 0.064 gram


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	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}	40								A
Maximum instantaneous forward voltage at $I_{FM}=1.0\text{A}$ (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	0.2				0.5				m A
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

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

FIG. 1 - FORWARD CURRENT DERATING CURVE

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

FIG.3-TYPICAL FORWARD CHARACTERISTICS

FIG.4-TYPICAL JUNCTION CAPACITANCE

FIG.5-TYPICAL REVERSE CHARACTERISTICS


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