

SS22-SS210

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

FORWARD CURRENT: 2.0 A



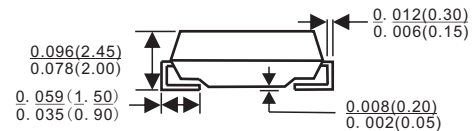
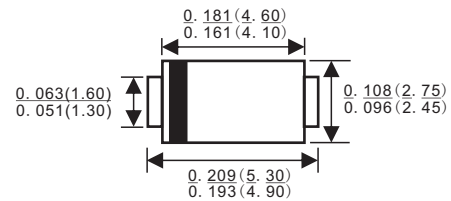
SMA/DO-214AC

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: 0.064 gram



Dimensions in inches and(millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Device marking code		SS22	SS23	SS24	SS25	SS26	SS28	BYS11-90	SS210	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 $T_L=90^\circ\text{C}$	$I_{F(AV)}$	2.0						1.5		A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	75								A
Maximum instantaneous forward voltage (NOTE1) @ $I_F=2.0\text{A}$ @ $I_F=1.0\text{A}$	V_F	0.50			0.70		-		0.75	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		mA
		10						5.0		
Maximum thermal resistance	$R_{\theta JL}$	28								$^\circ\text{C/W}$
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

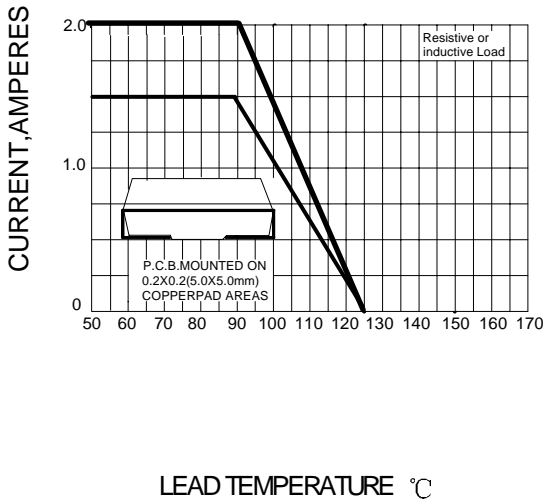


FIG.2– PEAK FORWARD SURGE CURRENT

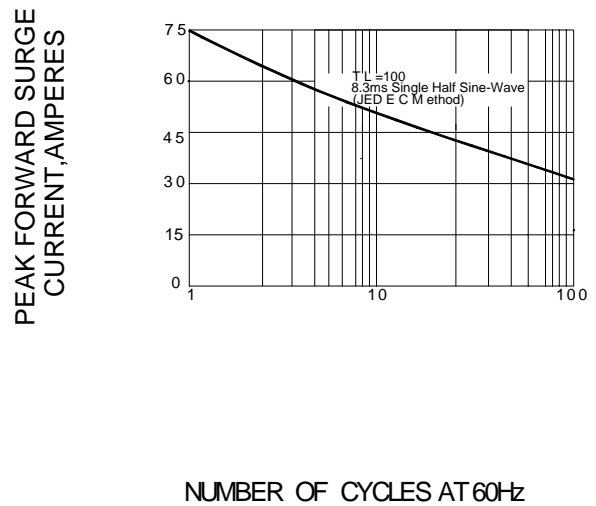


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

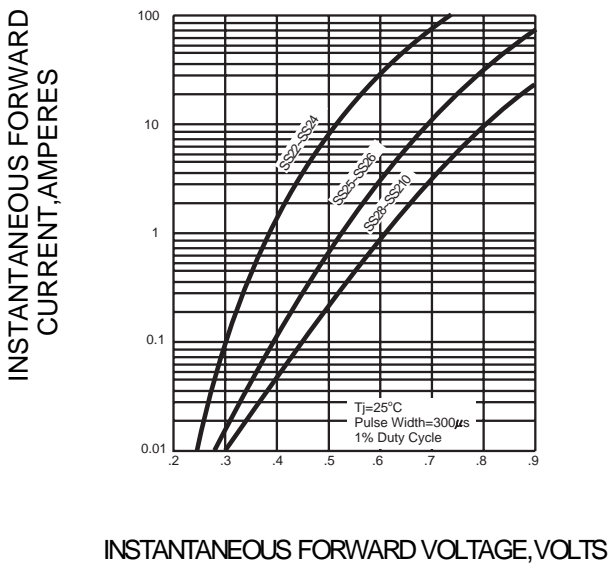


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

