

SS12-SS110

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

FORWARD CURRENT: 1.0 A



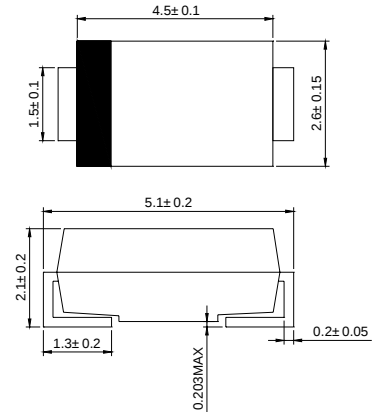
(DO-214AC)SMA

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



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Device marking code		SS12	SS13	SS14	SS15	SS16	SS18	SS19	SS110	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℃	I _{F(AV)}	1.0								A
Peak forward surge current 8.3ms single half-sine-wave	I _{FSM}	40								A
Maximum instantaneous forward voltage at I _{FM} =1.0A (NOTE1)	V _F	0.50			0.75			0.85		V
Maximum DC reverse current T _J =25℃ at rated DC blocking voltage T _J =125℃	I _R	0.2			0.5			m A		
		6.0			5.0					
Maximum thermal resistance	R _{θ JL}	28								℃/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 %

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Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

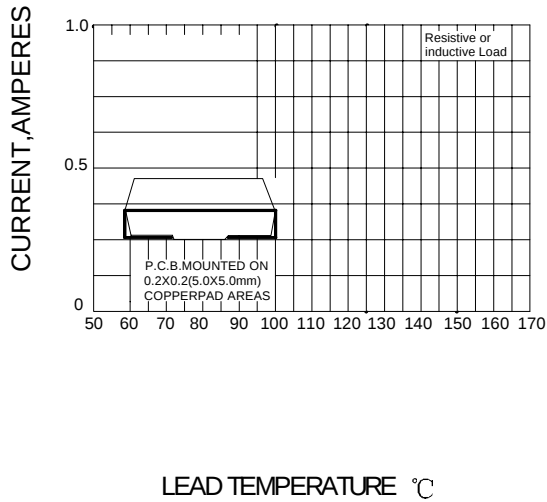


FIG.2– PEAK FORWARD SURGE CURRENT

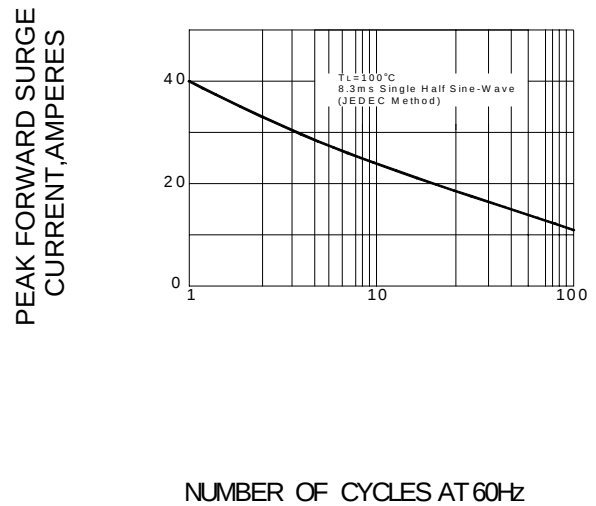


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

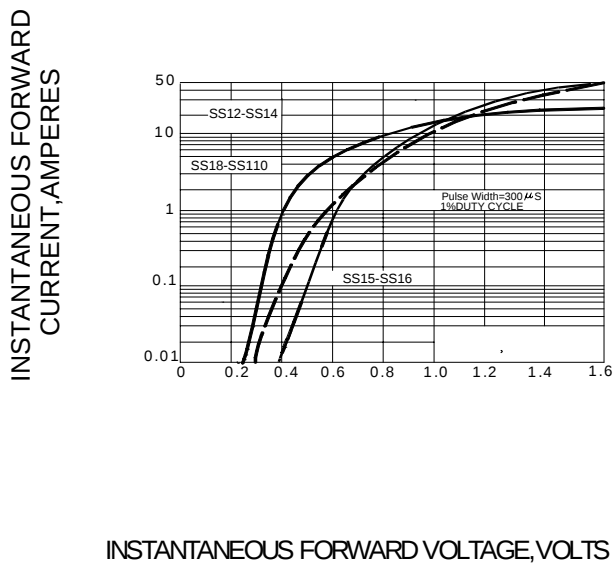


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

