SS22-SS210

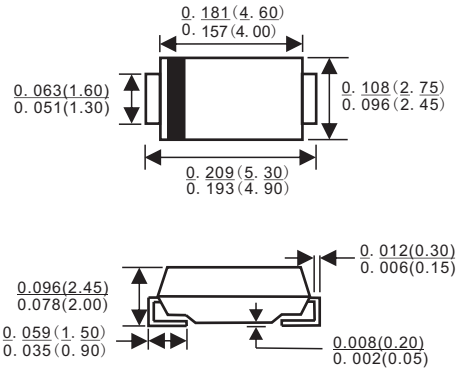
Surface Mount Schottky Barrier Rectifiers

RoHS COMPLIANT

REVERSE VOLTAGE: 20 - 100 V
FORWARD CURRENT: 2.0 A



SMA/DO-214AC



Dimensions in inches and(millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Device marking code		SS22	SS23	SS24	SS25	SS26	SS28	SS29	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℃	$I_{F(AV)}$	2.0					1.5			A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	75								A
Maximum instantaneous forward voltage (NOTE1) @IF=2.0A @IF=1.0A	V_F	0.50 -			0.70 -		- 0.75			V
Maximum DC reverse current T_J=25℃ at rated DC blocking voltage T_J=125℃	I_R	0.4 10					0.03 5.0			m A
Maximum thermal resistance	$R_{\theta JL}$	28								°C/W
Operating temperature range	T_J	-55 ---- +150								°C
Storage temperature range	T_{STG}	-55 ---- +150								°C

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

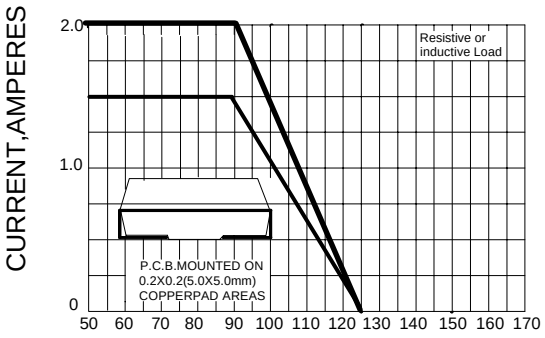
SS22-SS210

Surface Mount Schottky Barrier Rectifiers

RoHS COMPLIANT

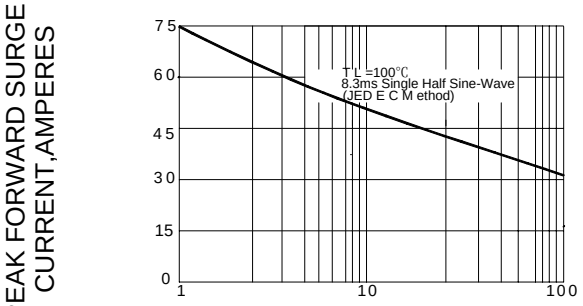
Ratings AND Charactieristic Curves

FIG.1 -- FORWARD DERATING CURVE



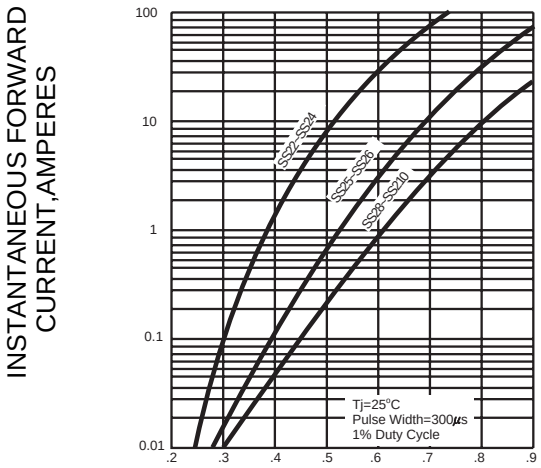
LEAD TEMPERATURE ℃

FIG.2-- PEAK FORWARD SURGE CURRENT



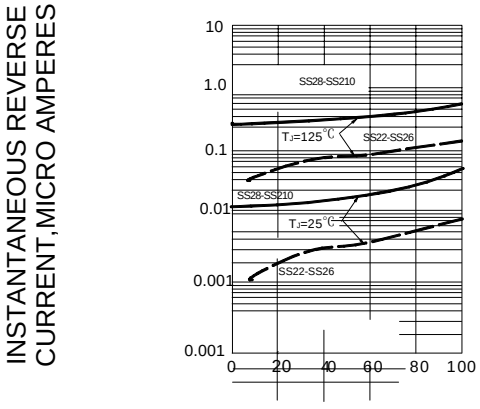
NUMBER OF CYCLES AT 60Hz

FIG.3 -- TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,VOLTS

FIG.4 -- TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,%

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00