SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 20 - 100 V

SSL12-SSL14

FEATURES

Guarding protection

Low forward voltage

Reverse energy tested

High current capability

Extremely low thermal resistance

MECHANICAL DATA

Case: SMA Molded plastic

Epoxy: UL94V-O rate flame retardant

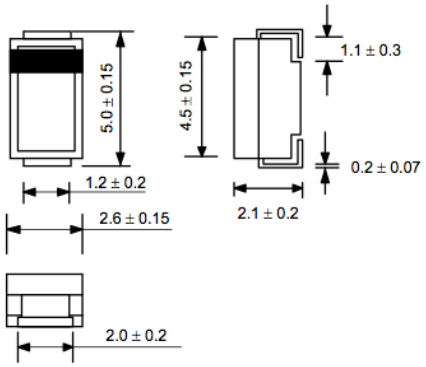
Lead: Lead Formed for Surface Mount

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.067 gram

SMA (DO-214AC)



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

		SSL12	SSL13	SSL14	UNITS
Device marking code		SSL12	SSL13	SSL14	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V_{RWS}	14	21	28	V
Maximum DC blocking voltage	V_{DC}	20	30	40	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}=0.1A (NOTE1)	V_F	0.28	0.28	0.38	V
Maximum instantaneous forward voltage at I_{FM}=1.0A (NOTE1)	V_F	0.38	0.38	0.40	V
Maximum DC reverse current TJ=25℃	I_R	0.5 50			mA
Maximum thermal resistance	$R_{\theta JL}$	75			℃/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%

Ratings and Characteristic Curves

FIG.1-Forward Derative Curve

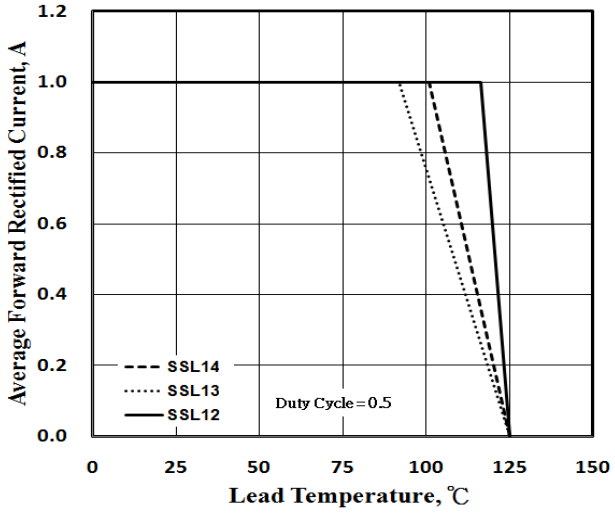


FIG.2-Max FWD Surge Current

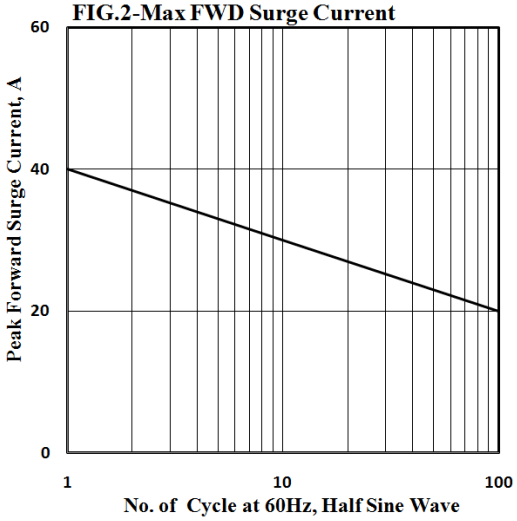


FIG.3-Typical Forward Characteristic Curve

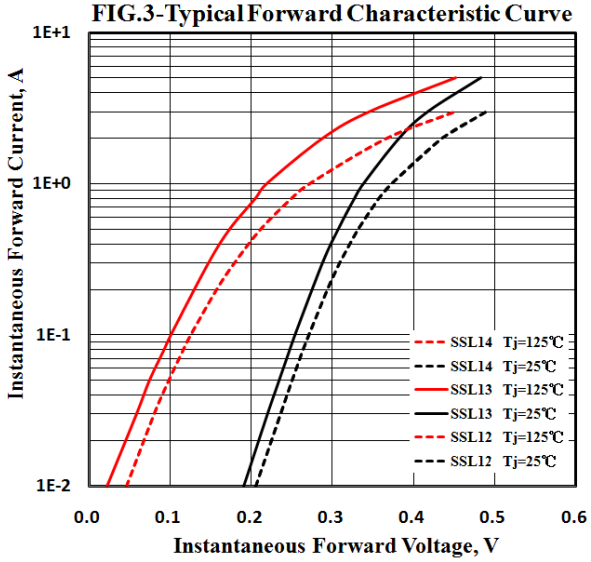


FIG.4-Typical Reverse Characteristic Curve

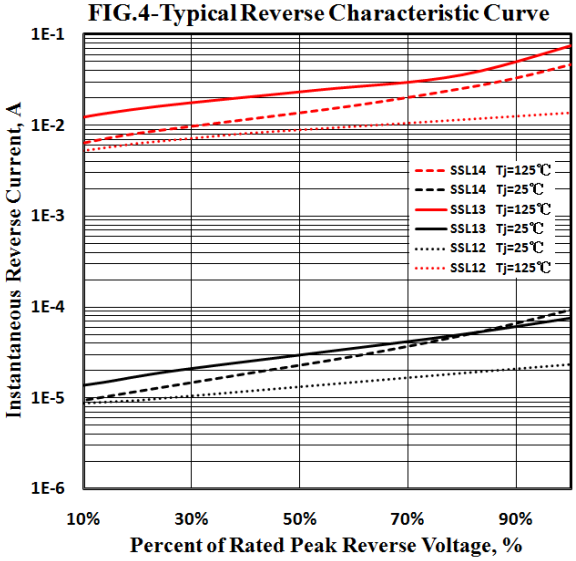


FIG.5-Typical Junction Capacitance

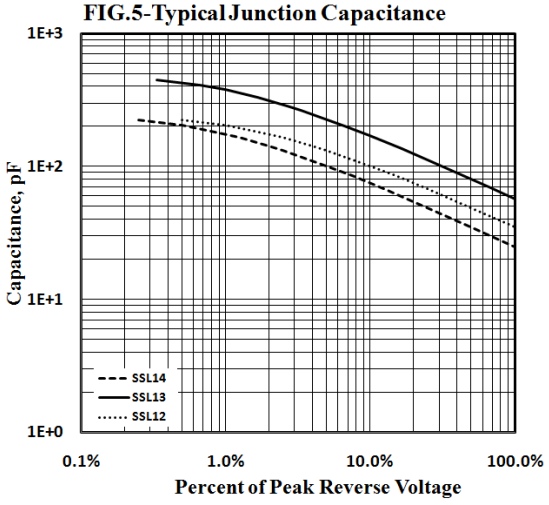


Fig.6-Typical Operating Temperature Derating