



VOLTAGE 20V ~ 200V

2.0AMP Surface Mount Low VF Schottky Barrier Rectifiers

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low power loss,high efficiency
- * For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
- * Guardring for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals

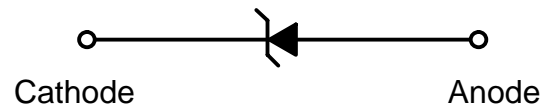
DO- 214AC

SMA



MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V- 0 rate flame retardant
- * Lead: Axial leads, solderable per MIL- STD- 202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.064 grams



MAXIMUM RATINGS AND ELECTRICAL CHACTERISTICS

	SYMBOLS	SSL 22A	SSL 23A	SSL 24A	SSL 25A	SSL 26A	SSL 28A	SSL 210A	SSL 215A	SS2 20A	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	100	VOLTS
Maximum average forward rectified current at T _L (see fig.1)	$I_{(AV)}$	2.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0									Amps
Maximum instantaneous forward voltage at 2.0A	V_F	0.47			0.5		0.72				Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I_R	20			10						mA
Typical junction capacitance (NOTE 1)	C_J	220			180						pF
Typical thermal resistance (NOTE 2)	R_{qJA}	88.0									°C/W
Operating junction temperature range	T_J	-65 to +125			-65 to +150						°C
Storage temperature range	T_{STG}	-65 to +150									°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



SSL22A thru SSL220A

FIG. 1- FORWARD CURRENT DERATING CURVE

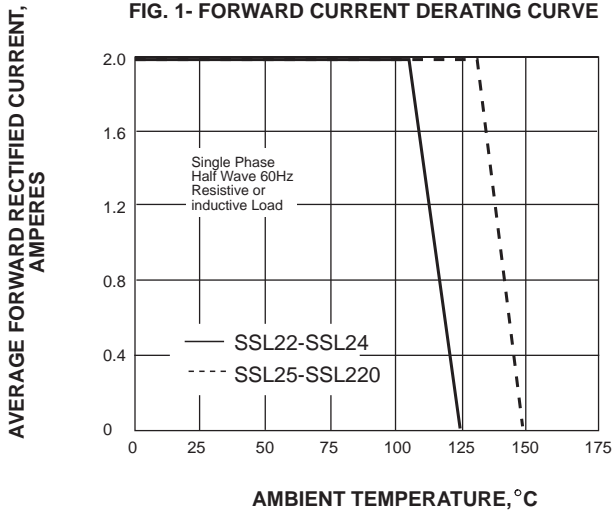


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

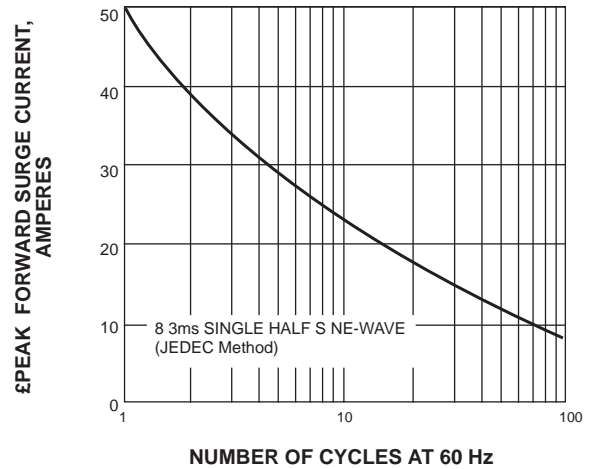


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

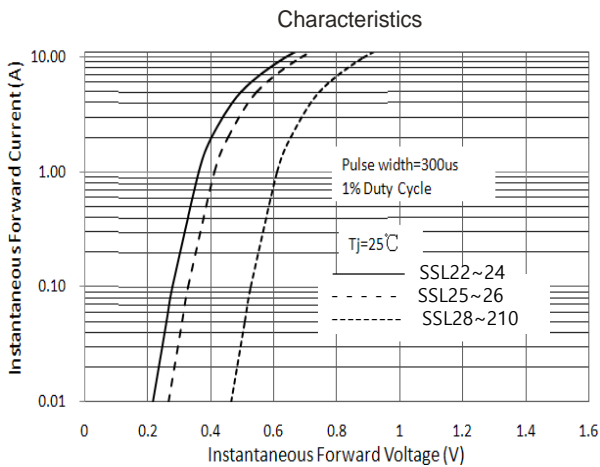
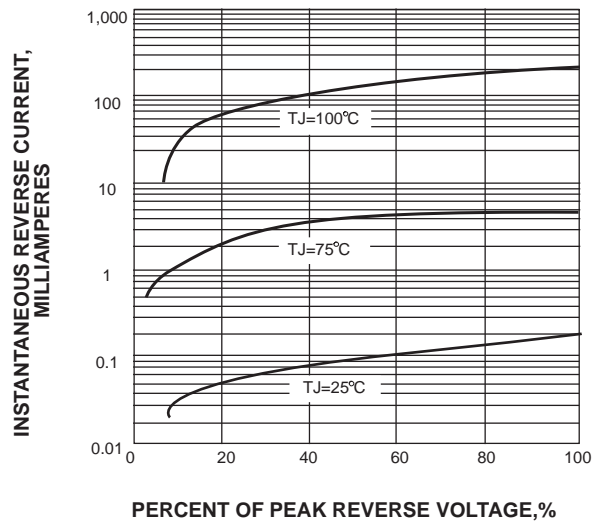


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS

FIG. 5-TYPICAL JUNCTION CAPACITANCE

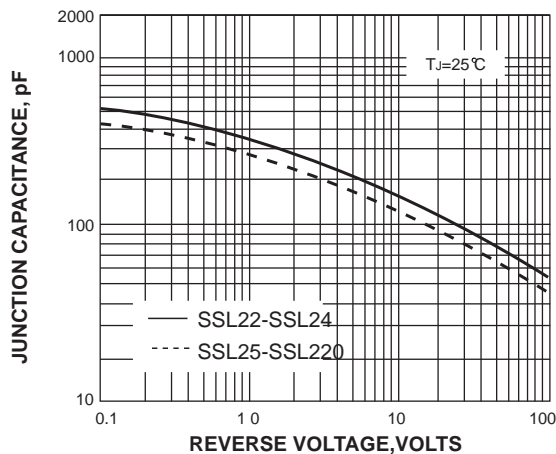
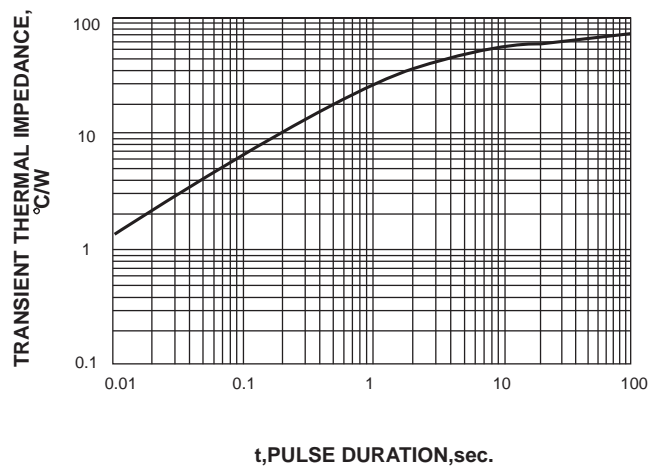


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Package Dimensions in inches and (millimeters)

