

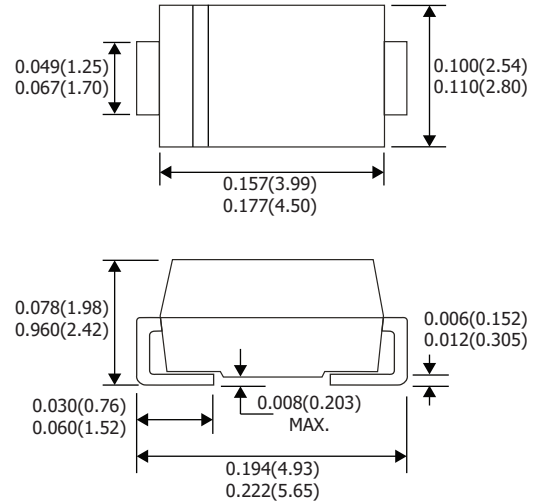
SS52LA THRU SS510LA

CURRENT 5.0 A
VOLTAGE 20 to 100 V

Features

- Schottky Barrier Chip
- Guardring for overvoltage Protection
- Very Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

DO-214AC (SMA)



Dimensions in inches and (millimeters)

Mechanical Data

- Case : JEDEC SMA/DO-214AC Type, Molded Plastic
- Terminals : Pure tin Plated, Lead Free Solderable Per MIL-STD-750, Method 2026
- Polarity : Laser band denotes cathode end
- Weight : 0.064 grams(approx)
- Mounting Position : Any

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise noted.)

Items	Symbols	SS52LA	SS54LA	SS545LA	SS55LA	SS56LA	SS58LA	SS510LA	Units
Maximum recurrent peak reverse voltage	V_{RRM}	20	40	45	50	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	28	31.5	35	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	40	45	50	60	80	100	V
Maximum average forward rectified current	$I_{F(AV)}$	5							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80							A
Maximum forward voltage at $I_F=5.0A$	V_F	0.45			0.65		0.68		V
Maximum DC reverse current at rated DC blocking voltage	$T_J=25^\circ C$	0.3							mA
	$T_J=100^\circ C$	20							
Typical thermal resistance to ambient	$R_{\theta JA}$	80							$^\circ C/W$
Typical thermal resistance to case	$R_{\theta JC}$	25							$^\circ C/W$
Operating junction temperature range	T_J	-55 to +125							$^\circ C$
Storage temperature range	T_{STG}	-55 to +150							$^\circ C$

RATINGS AND CHARACTERISTIC CURVES SS52LA THRU SS510LA

FIG.1-FORWARD CURRENT DERATING CURVE

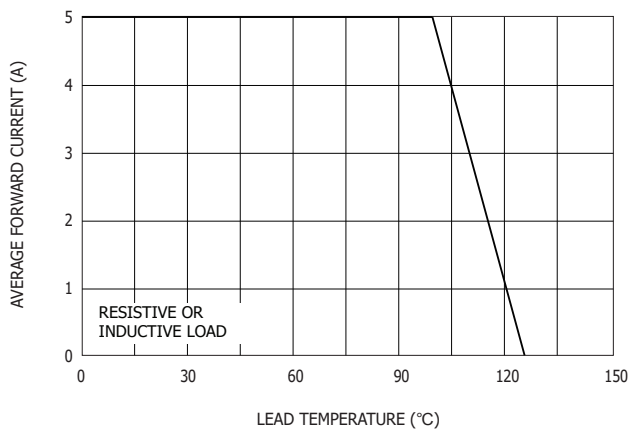


FIG.2-FORWARD SURGE CURRENT DERATING CURVE

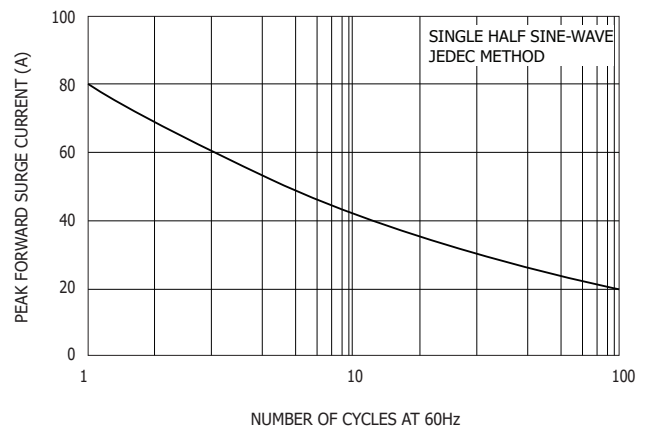


FIG.3-TYPICAL JUNCTION CAPACITANCE

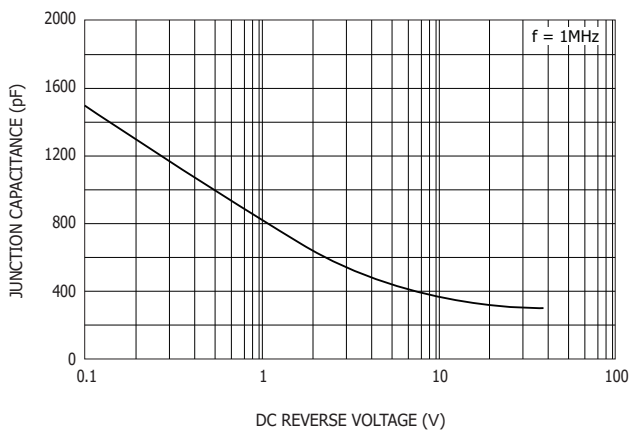


FIG.4-TYPICAL REVERSE CHARACTERISTICS

