

Reverse Voltage - 20 to 100 Volts Forward Current - 5.0 Amperes



DO-214AC (SMA)

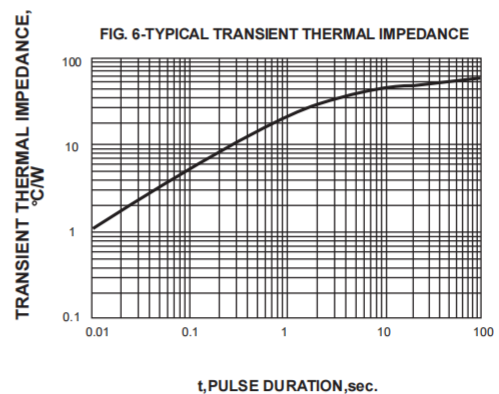
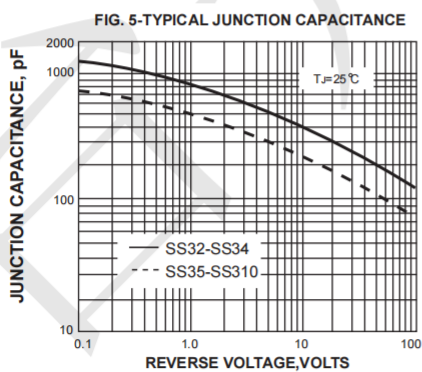
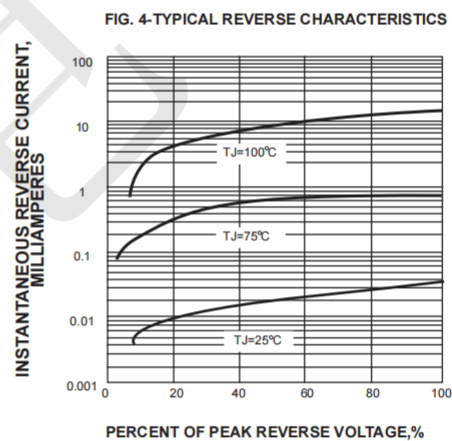
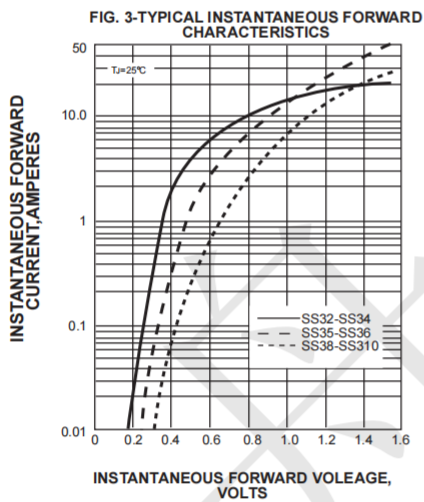
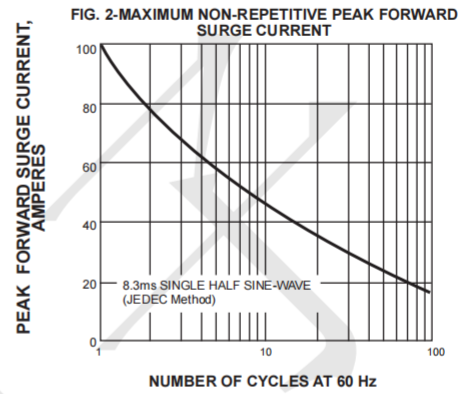
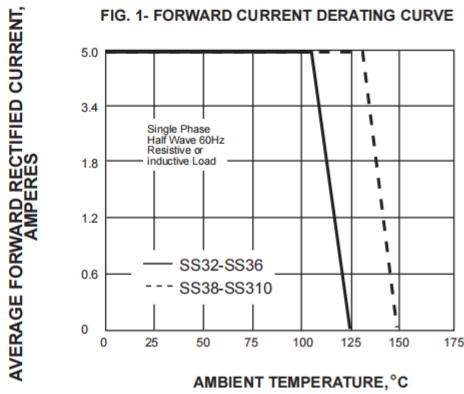


Limiting Values(Absolute Maximum Rating)

	SYMBOLS	SS52A	SS53A	SS54A	SS55A	SS56A	SS58A	SS510A	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at T_L (see fig.1)	$I_{(AV)}$	5.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100.0							Amps
Maximum instantaneous forward voltage at 3.0A	V_F	0.55		0.70		0.85			Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5							mA
$T_A=25^{\circ}C$ $T_A=100^{\circ}C$		20				10			
Typical junction capacitance (NOTE 1)	C_J	500			300				pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	55.0							$^{\circ}C/W$
Operating junction temperature range	T_J	-65 to +125					-65 to +150		$^{\circ}C$
Storage temperature range	T_{STG}	-65 to +150							$^{\circ}C$

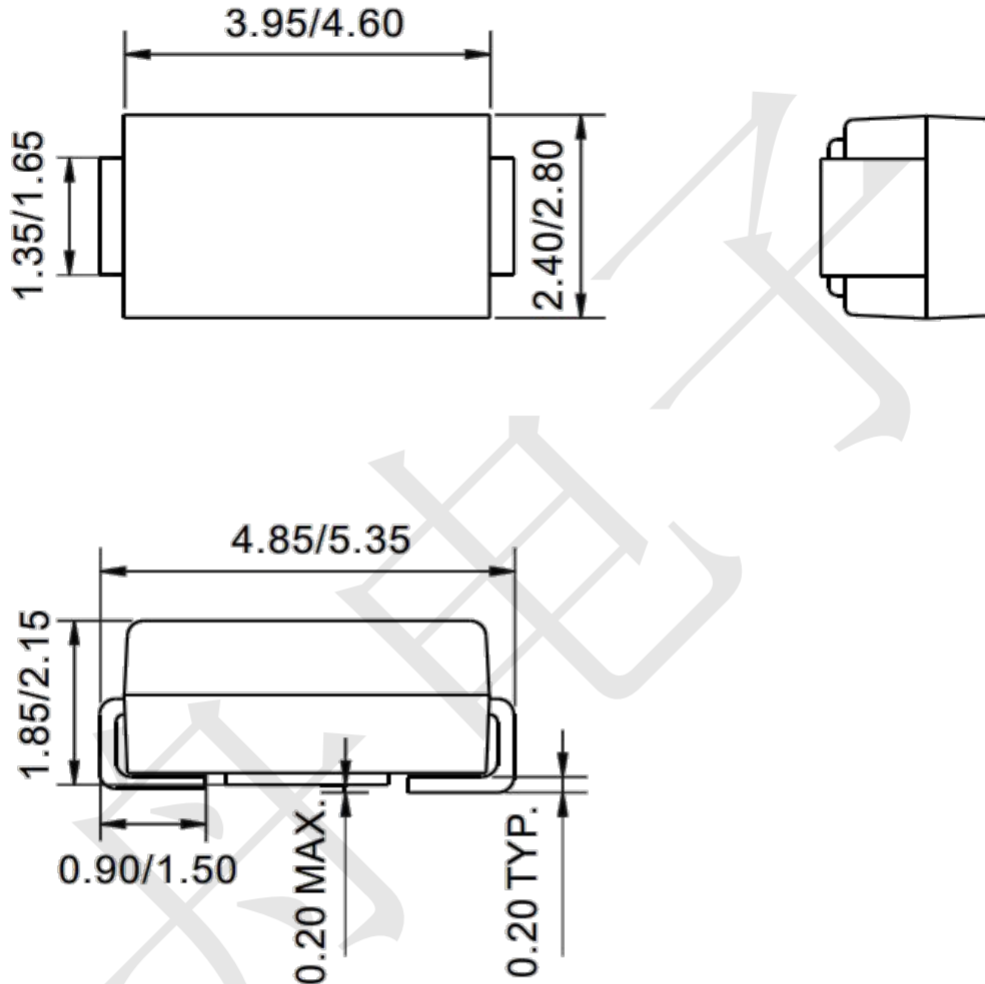
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES



Package information (Unit: mm)

DO-214AC (SMA)



Mounting Pad Layout (Unit: mm)

