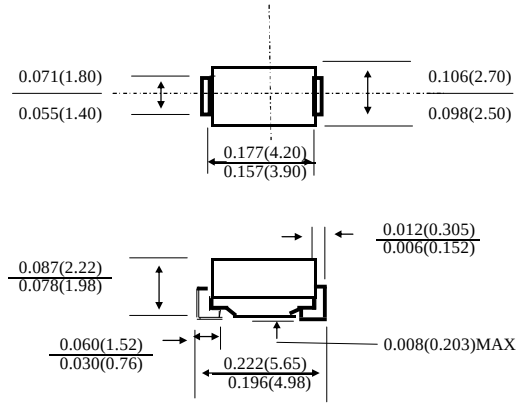
SS22 THRU SS210

2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 20 to 100 VOLTS

DO - 214AC(SMA)



inch (mm)

FEATURES

. For surface mounted applications
. Metal silicon junction,majority carrier conduction
. Low power loss,high efficiency
. Built-in strain relief,ideal for automated placement
. High forward surge current capability
. High temperature soldering guaranteed:
250℃/10 seconds at terminals
. The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

. Case: JEDEC DO -214AC. molded plastic
. Terminals: Axial leads. Solderable per MIL - STD - 750 Method 2026
. Polarity: Color band denotes cathode
. Weight: 0.003 ounce. 0.093 grams
. Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ℃ ambient temperature unless otherwise specified.
Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20%

	SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. T_A = 75℃	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load	I_{FSM}	50.0							A
Maximum Forward Voltage at 1.5A DC	V_F	**0.50**			**0.70**		**0.85**		V
Maximum Reverse Current T_j = 25℃ at Rated DC Blocking Voltage T_j = 100℃	I_R	**0.5** **15.0**							mA
Typical Junction Capacitance (Note 1)	C_j	**150**							pF
Typical Thermal Resistance (Note 2)	R_{QJA}	**20**							℃/W
Operating Junction Temperature Range	T_j	— 55 to 125							℃
Storage Temperature Range	T_{STG}	— 55 to 150							℃

NOTE: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
2. P.C.B.mounted with 0.2×0.2 (5.0×5.0mm)copper pad areas

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Fig.1-Forward Current Derating Curve

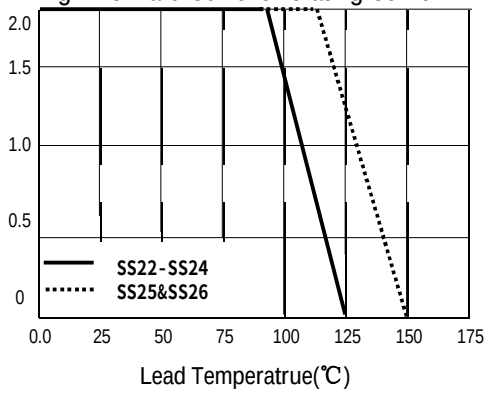


Fig.2-Maximum Non-repetitive Surge Current

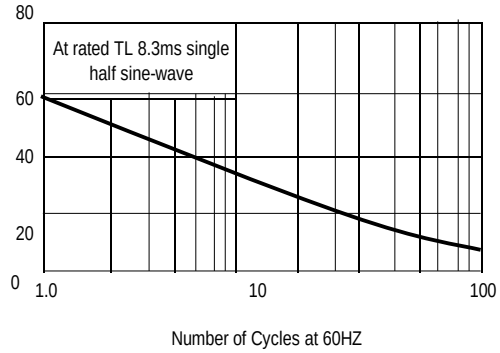
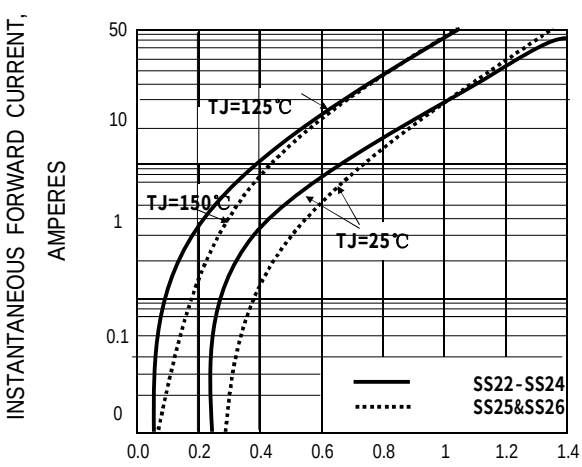


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS



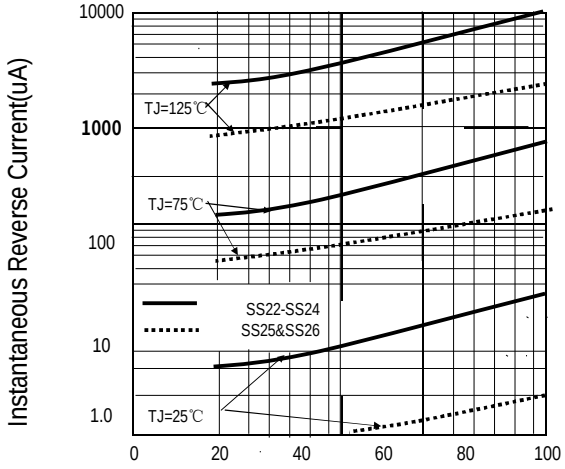


FIG. 5 -- Typical Junction Capacitance

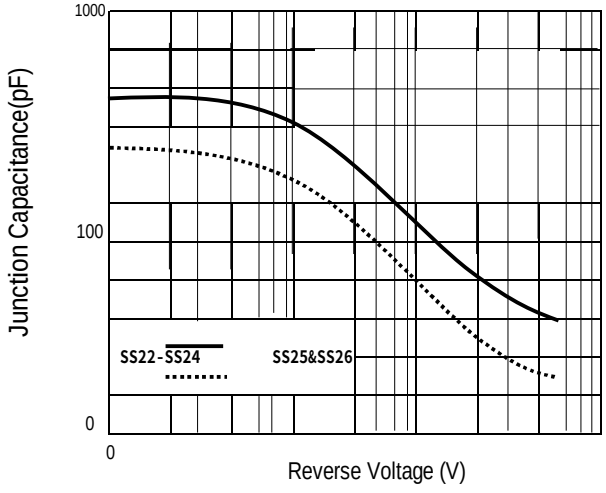
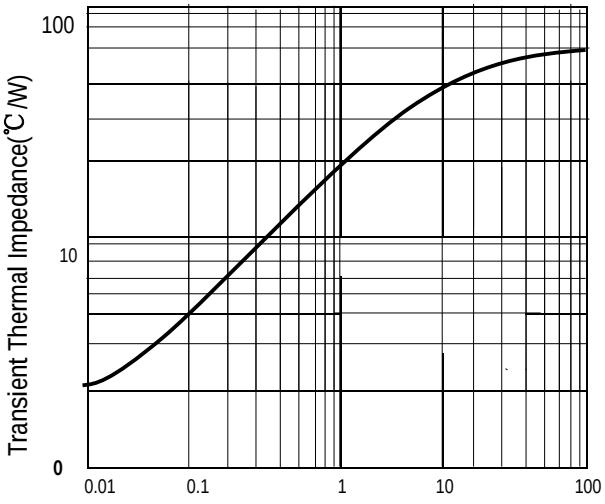


FIG. 6 -- Typical Transient Thermal Impedance



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