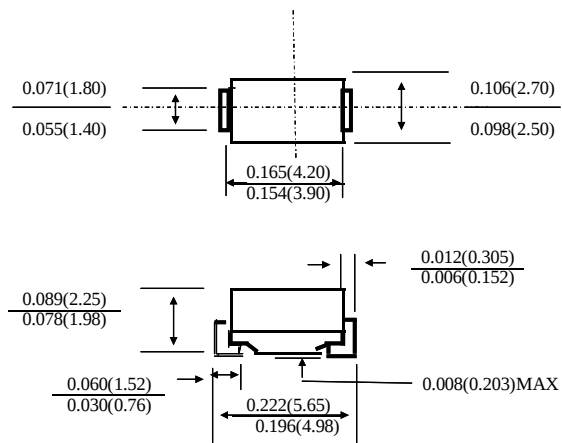


2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

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°C/10 seconds at terminals
- . The plastic material carries U/L recognition 94V-0

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 °C 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°C	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 2.0A DC	V _F	0.50			0.70		0.85		V
Maximum Reverse Current T _j = 25°C at Rated DC Blocking Voltage T _j = 100°C	I _R	0.5 15.0							mA
Typical Junction Capacitance (Note 1)	C _j	150							pF
Typical Thermal Resistance (Note 2)	R _{QJA}	20							°C/W
Operating Junction Temperature Range	T _j	— 55 to 125							°C
Storage Temperature Range	T _{STG}	— 55 to 150							°C

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

Fig.1-Forward Current Derating Curve

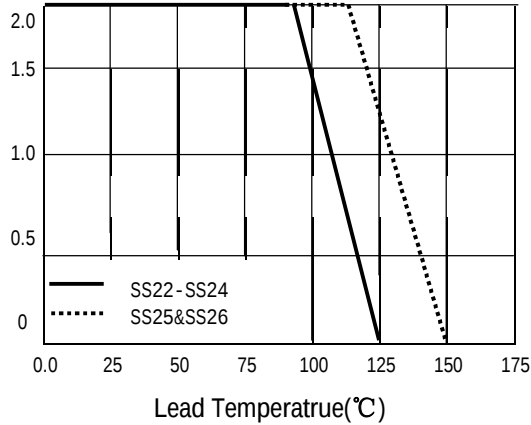


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

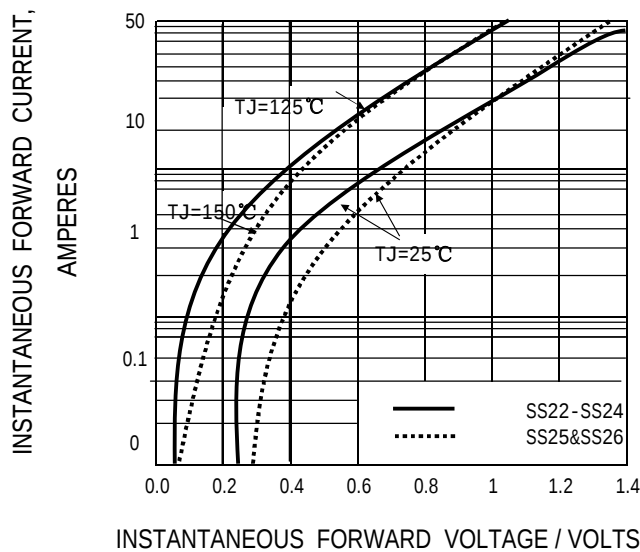


FIG. 5 -- Typical Junction Capacitance

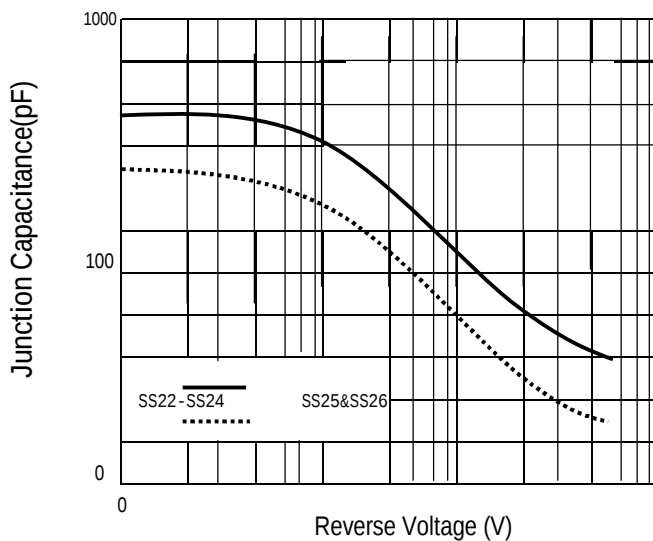


Fig.2-Maximum Non-repetitive Surge Current

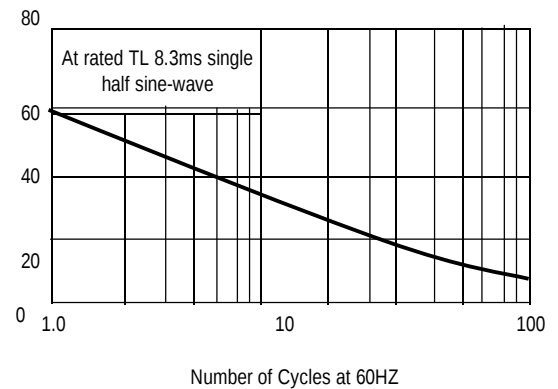


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS

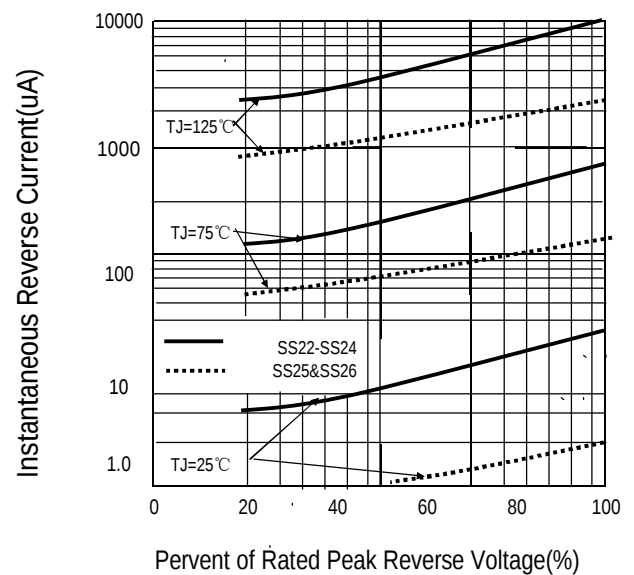


FIG. 6 -- Typical Transient Thermal Impedance

