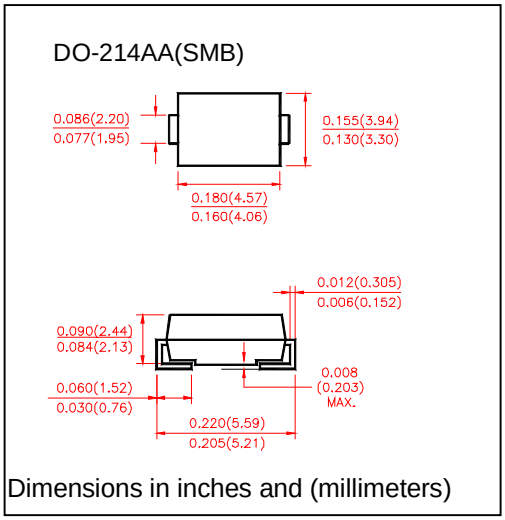
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SS22 THRU SS210

VOLTAGE RANGE **20 to 100Volts**
CURRENT **2.0 Ampere**

FEATURES

- Low profile surface mount package
- Built in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing ,and polarity protection applications
- Guardring for over voltage protection



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.003 ounce, 0.093 gram

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%.

		SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at T_L SeeFIG.1 T_L=95℃		$I_{(AV)}$	2.0								Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	50								Amps
Maximum Instantaneous Forward Voltage @ 2.0A(Note1)		V_F	0.55			0.75		0.85			Volts
Maximum DC Reverse Current at rated DC Blocking voltage per element	T_A=25℃	I_R	0.15								mA
	T_A=125℃		10.0								
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	75								℃/W
		$R_{\theta JC}$	17								
Operating Junction Temperature		T_J	(-55to+125)			(-55to+150)					℃
Storage Temperature Rang		T_{STG}	(-55 to +150)								℃

Notes:

1. Pulse test:300μs pulse width,1% duty cycle
2. PCB mounted with 0.2”×0.2”(5.0cm×5.0cm)copper pads

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SS22 THRU SS210	VOLTAGE RANGE	20 to 100 Volts
	CURRENT	2.0 Ampere

RATING AND CHRACTERISTIC CURVES SS22 THRU SS210

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

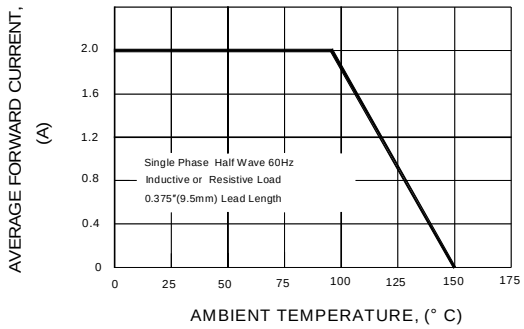


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

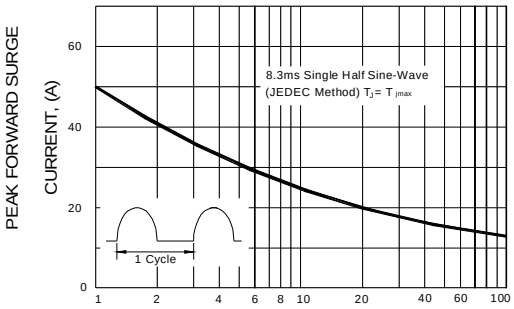


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

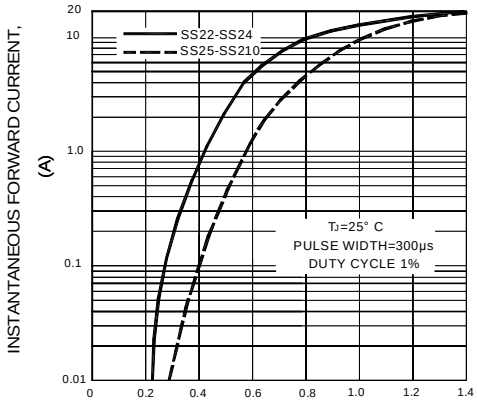


FIG.4-TYPICAL REVERSE CHARACTERISTICS

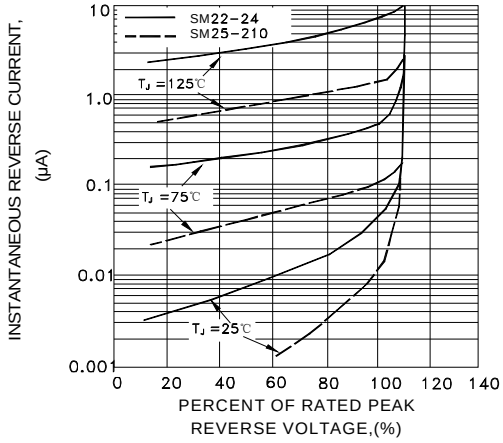


FIG.5-TYPICAL JUNCTION CAPACITANCE