Low Forward Voltage Schottky Barrier Rectifier

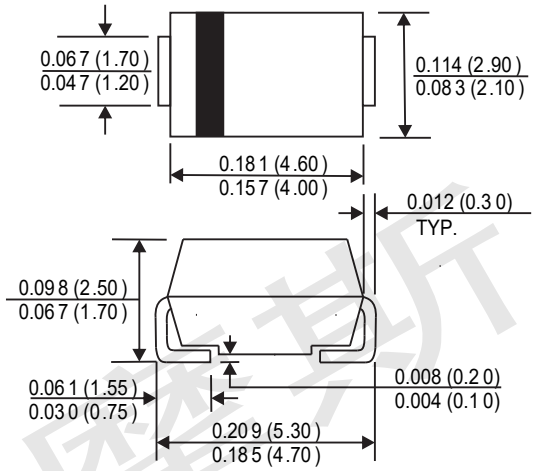
SS22L THRU SS210L 40 to 100 V 2.0A

RoHS COMPLIANT

FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
  Super fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
  260°C/10 seconds at terminals

SMA(DO-214AC)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- **Case**: JEDEC DO-214AC molded plastic body
- **Terminals**: Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity**: Color band denotes cathode end
- **Mounting Position**: Any
- **Weight**:0.002 ounce, 0.07 grams

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	SS22L	SS24L	SS26L	SS28L	SS210L	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	V
Maximum average forward rectified current at T_L(see fig.1)	$I_{(AV)}$	2.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0					A
Maximum instantaneous forward voltage at 2.0A	V_F	0.45		0.5	0.65		V
Maximum DC reverse current T_A=25℃	I_R	0.5			0.2		mA
at rated DC blocking voltage T_A=100℃		10.0			5.0		
Typical junction capacitance (NOTE 1)	C_J	220		180			pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	68.0					°C/W
Operating junction temperature range	T_J,	-55 to +150					°C
Storage temperature range	T_{STG}	-55 to +150					°C

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SMAF SMA DO-214AC	F1	Approximate 0.034	3000	12000	96000	7" reel
	F2	Approximate 0.034	10000	20000	160000	13" reel
	F4	Approximate 0.034	7500	15000	120000	13" reel

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RATINGS AND CHARACTERISTIV CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

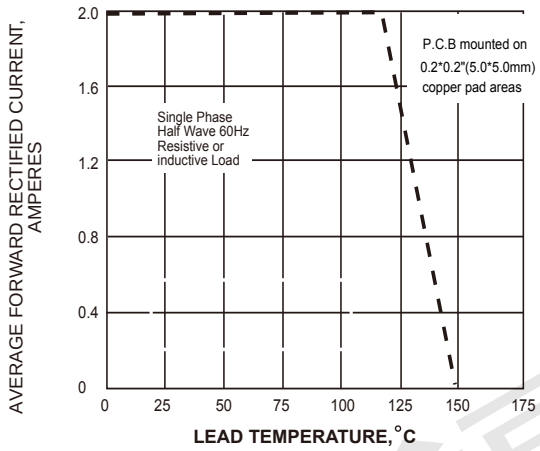


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

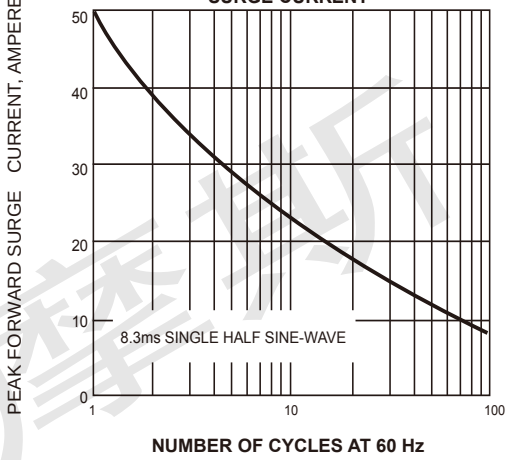


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

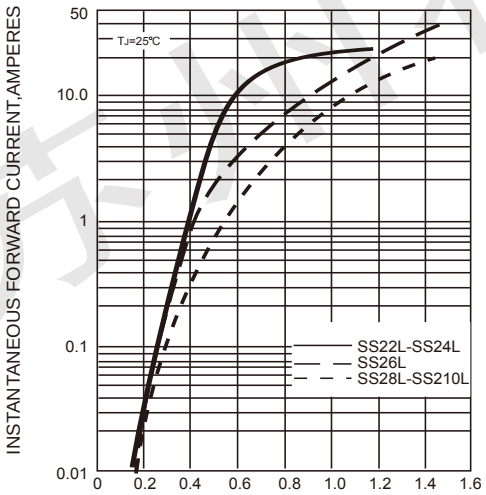


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

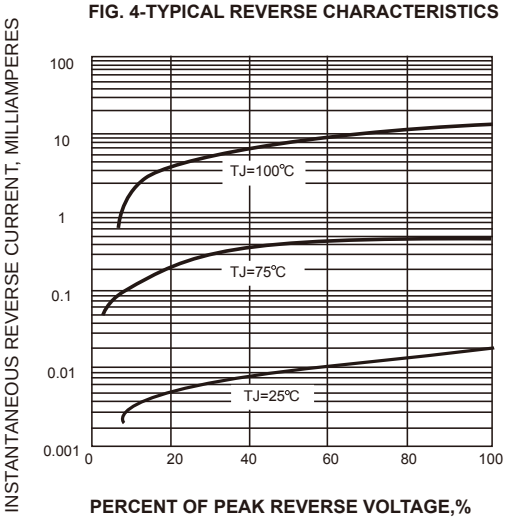


FIG. 5-TYPICAL JUNCTION CAPACITANCE

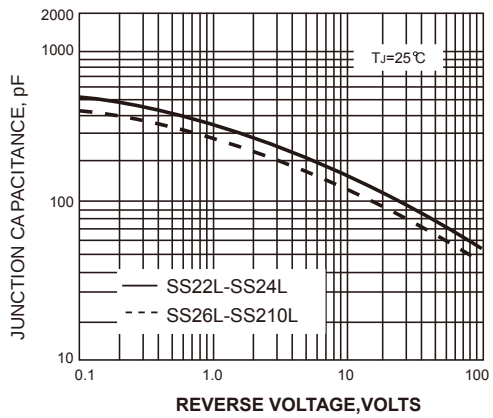


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

