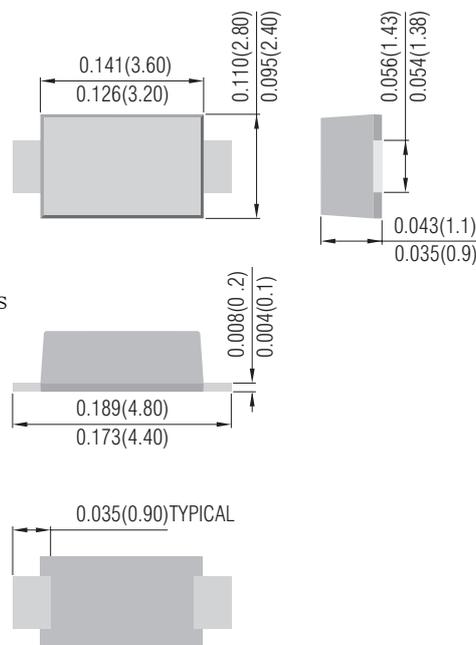


### 2. 0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIE

#### Features

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier.majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity,low VF
- For use in low voltage high frequency inverters,free wheeling and polarity protection applications.
- High temperature soldring guaranteed:260°C/10 seconds at terminals
- High temperature soldring:260°C/10 seconds at terminals
- Pb free product at available:99% Sn above meet RoHS environment substance directive request

**SMAF** Unit:inch(mm)



#### Mechanical Data

- Terminals: Solder plated ,solderable per MIL-STD-750,Method 2026
- Case: SMAF molded plastic
- Polarity: Color band denotes positives end(cathode)
- Standard packaging:12mm tape(EIA-481)
- Weight:0.002 ounce,0.064 gram

#### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Resistive or inductive load.

Parameter	Symbol	S12	S13	S14	S15	S16	S18	S19	S110	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	64	71	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	90	100	V
Maximum Average forward rectified current at TL(see figure1)	I(AV)	2.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	50.0								A
Maximum instantaneous forward voltage @1.0A(Note 1)	VF	0.50			0.70		0.85			V
Maximum DC reverse current at TA=25°C at rated DC blocking voltage TA=100°C	IR	0.5 10.0								mA
Maximum thermal resistance per leg (Note2)	R $\theta$ JL R $\theta$ JA	20.0 88.0								°C/W
Operating and storage temperature range TJ	TJ	-50 to +150								°C
Storage temperature range	TSTG	-55 to +150								°C

#### Note:

1. Pulse Test with PW=300 μ sec, 2% Duty Cycle.
2. Mounted on P. C. Board with 5.0mm2(.013mm thick)copper pad areas.



## S22-S210

### 2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

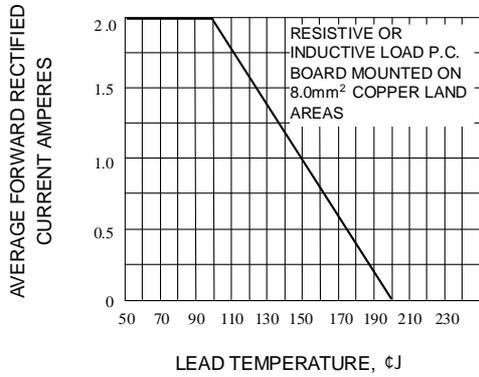


Fig. 1-FORWARD CURRENT DERATING CURVE

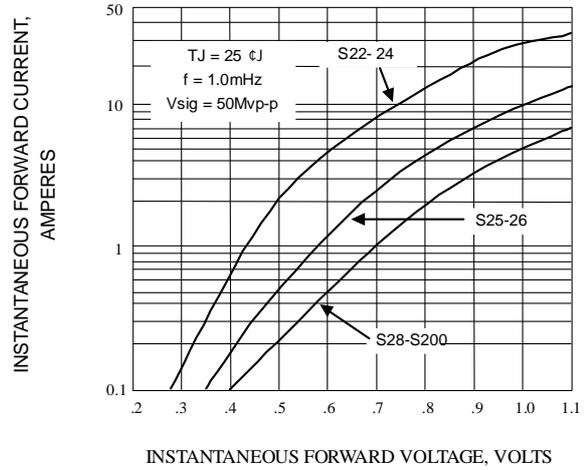


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

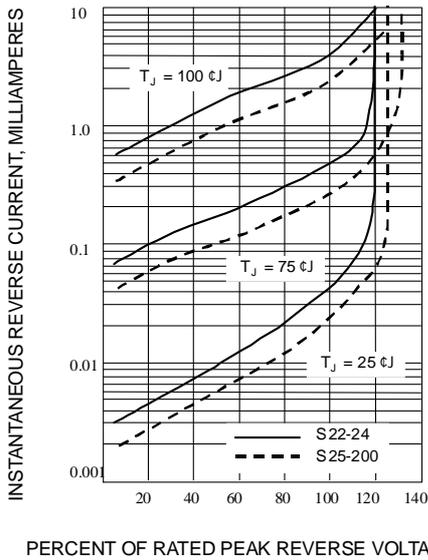


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

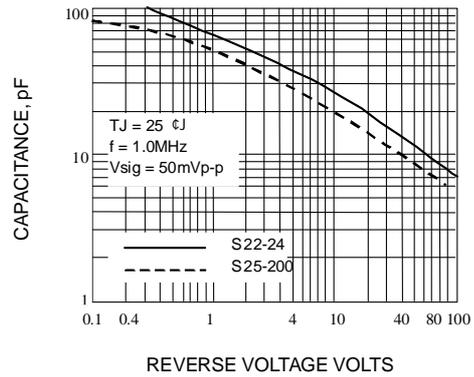


Fig. 4-TYPICAL JUNCTION CAPACITANCE

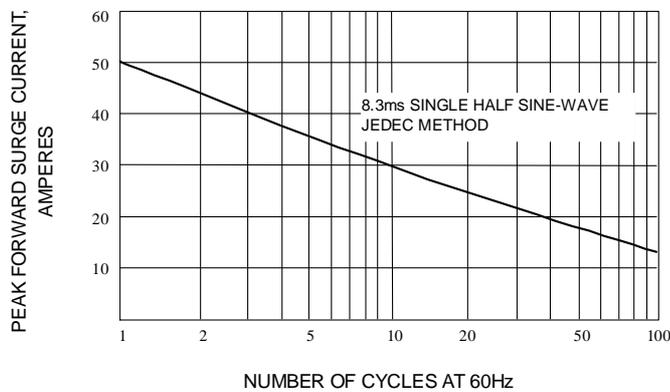


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT