SS22 THRU SS210

2.0AMP.SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage Range
20 to 100 Volts
Current
2.0Amperes

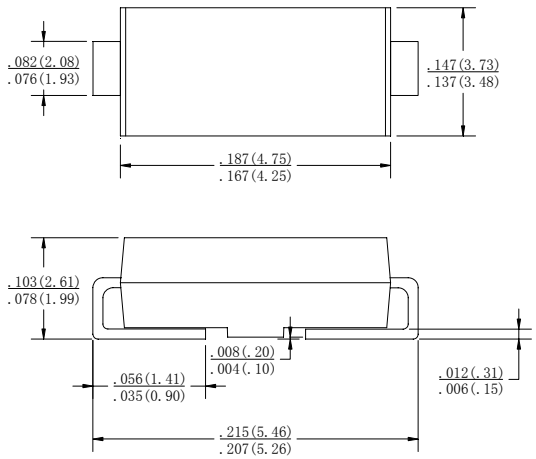
Features

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low VF
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering: 260℃ / 10 seconds at terminals

Mechanical Data

- Case: molded plastic
- Terminals:Solder plated
- Polarity:Indicated by cathode band
- Packaging:12mm tape EIA STD RS-481
- Weight:0.093gram

SMB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave,60Hz,resistive or inductive load.
For capacitive load,derate current by 20%

Type Number		SS22	SS23	SS24	SS25	SS26	SS29	SS210	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at T_L(See Fig. 2)	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage (Note@1.0 A	V_F	0.50			0.70		0.85		V
Maximum DC Reverse Crrent @ T_A=25℃ At Rated DC Blocking Voltage @ T_A=125℃	I_R	0.4 10.0			0.4 5.0		0.1 5.0		mA
Typical Thermal Resistance (Note)	$R\theta_{JL}$ $R\theta_{JA}$	17 75							℃ /W
Operating Junction Temperature Range	T_J	-65 to+125			-65 to+150				℃
Storage Temperature Ranage	T_{STG}	-65 to+150							℃

NOTE: Measured on P.C.Board with 0.4” x 0.4” (10mm x 10mm) Copper Pad Areas

RATING AND CHARACTERISTIC CURVES
SS22 THRU SS210

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELELMENT

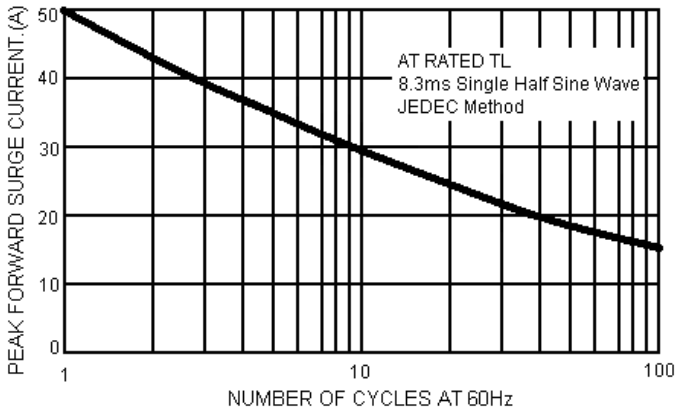


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

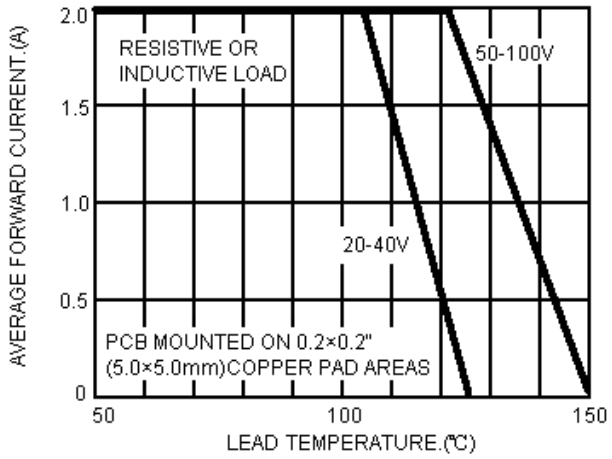


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

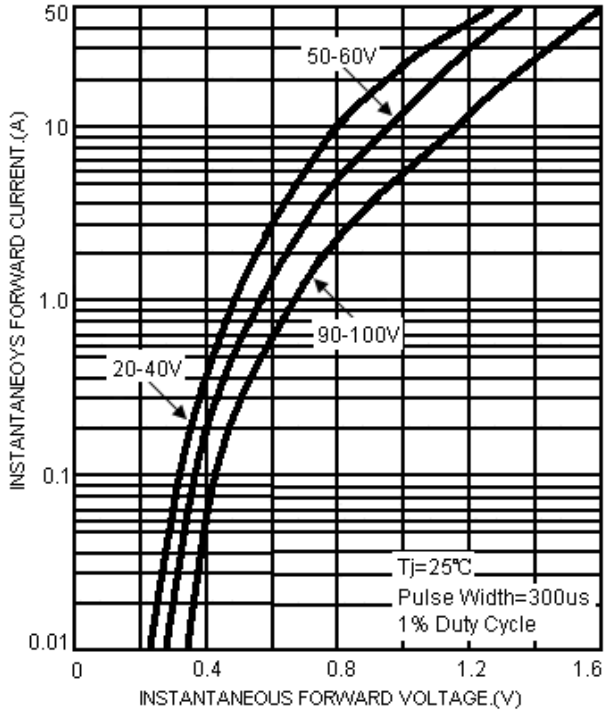


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT