SS22~SS2200

Surface Mount Schottky Rectifiers

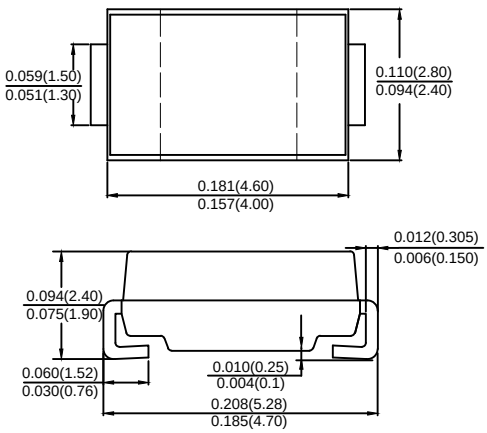
Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperatrue soldering：
  260℃/10 seconds at terminals
- Component in accordance to
  RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- **Case:** JEDEC DO-214AC (SMA) molded plastic
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end

SMA/DO-214AC



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	SYMBOL	SS 22	SS 24	SS 26	SS 28	SS 210	SS 2150	SS 2200	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	V
Average Rectified Output Current @T_L =100℃	I_O	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
Rating for fusing (t<8.3ms)	I^2t	10.37							A^2s
Forward Voltage @IF=2.0A	V_{FM}	0.55		0.7		0.85	0.92	0.95	V
Peak Reverse Current @T_A =25℃	I_R	0.1				0.05			mA
At Rated DC Blocking Voltage @T_A =100℃		10				5			
Typical Junction Capacitance (Note 2)	C_J	150							pF
Typical Thermal Resistance per leg	$R_{\theta JLA}$	72							℃/W
Operating Temperature Range	T_J	-55 to+150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

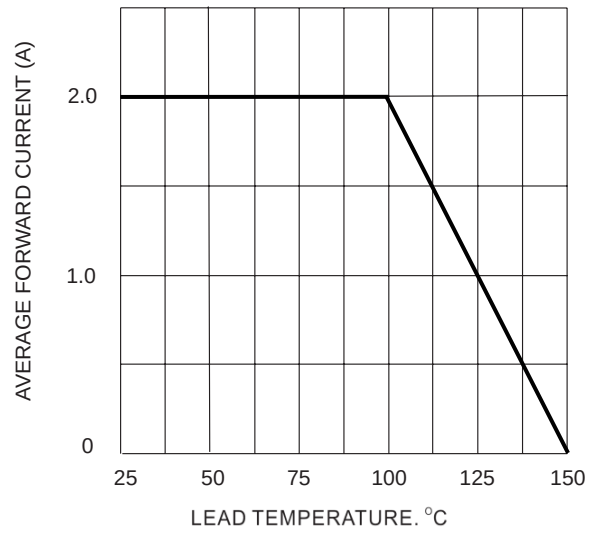


Fig. 2 Typ. Forward Characteristics

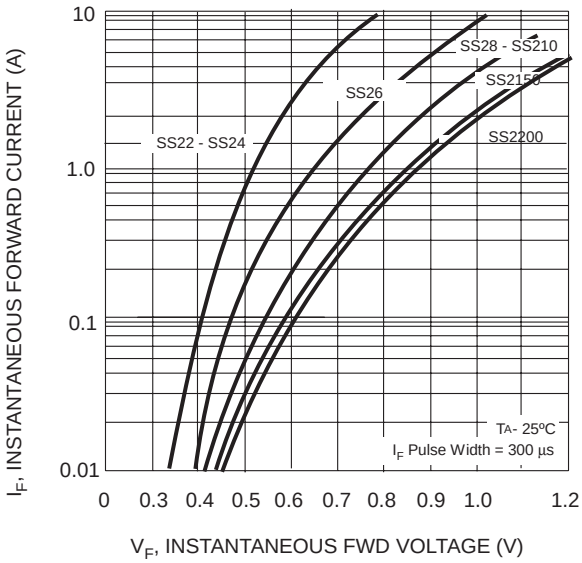


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

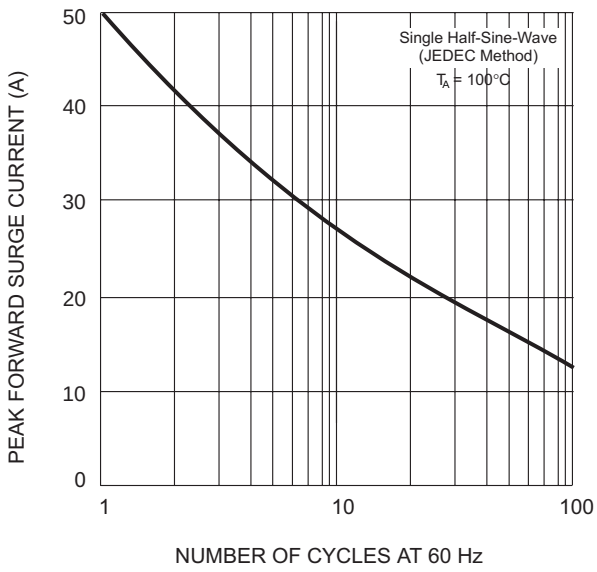
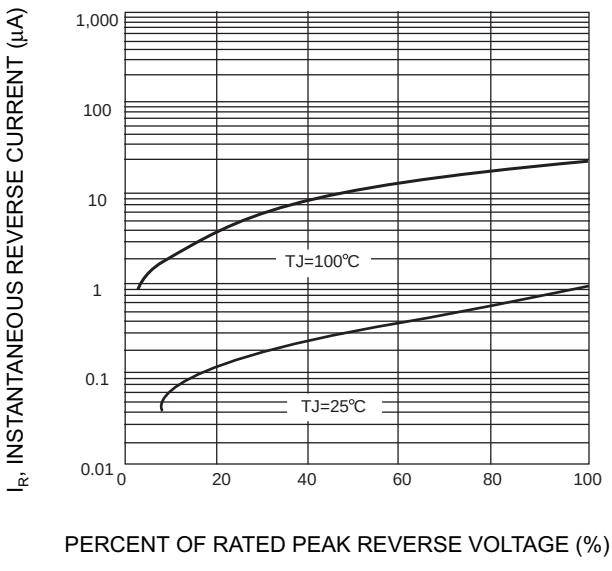
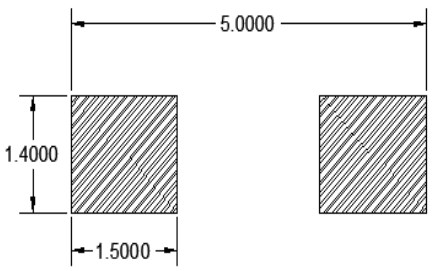


Fig. 4 T ypical Reverse Characteristics (per element)



SMA PAD LAYOUT



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