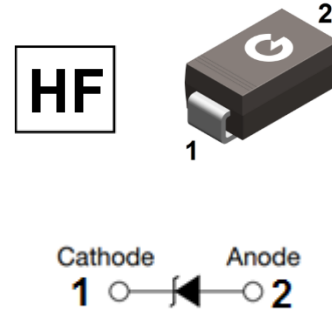


Schottky Barrier Rectifier

SS2150A - SS2200A

Features

- Metal silicon junction, majority carrier conduction
- High forward surge current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C @ 10s
- Robust guarding for over voltage protection
- RoHS compliant with Halogen-free



Mechanical Data

- Case: SMA molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Matte tin plated leads; solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	SS2150A	SS2200A	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	150	200	V
RMS Reverse Voltage	V _{RMS}	105	140	V
DC Blocking Voltage	V _{DC}	150	200	V
Maximum Average Forward Output Current	I _{F_AV}	2.0		A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	I _{FSM}	50		A

Thermal Characteristics

Parameter	Symbol	SS2150A	SS2200A	Unit
Typical Thermal Resistance *1	R _{θJA}	70		°C/W
	R _{θJC}	25		
	R _{θJL}	30		
Operating Junction Temperature Range	T _J	-55 ~ +150		°C
Storage Temperature Range	T _{STG}	-55 ~ +150		°C

Schottky Barrier Rectifier

SS2150A - SS2200A

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions		Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R = 100\mu\text{A}$, SS2150A		150	-	-	V
		$I_R = 100\mu\text{A}$, SS2200A		200	-	-	V
Instantaneous Forward Voltage* ²	V_F	$I_F = 2.0\text{A}$	@ $T_A = 25^\circ\text{C}$	-	-	0.85	V
Reverse Current* ³	I_R	Rated V_R	@ $T_J = 25^\circ\text{C}$	-	-	30	μA
			@ $T_J = 100^\circ\text{C}$	-	-	5	mA

Notes:

1. The data tested by surface mounted on p.c.b. with 10 mm x 20 mm x 0.1 mm copper pad area
2. The data tested by pulsed, pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 1\%$
3. The data tested by pulsed, pulse width $\leq 40\text{ms}$

Schottky Barrier Rectifier

SS2150A - SS2200A

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

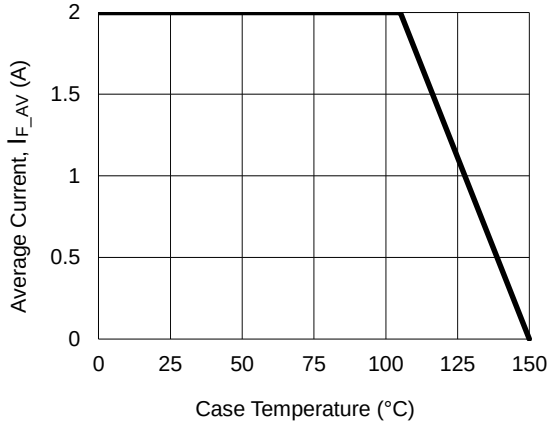


Fig.2 Surge Current Derating Curve

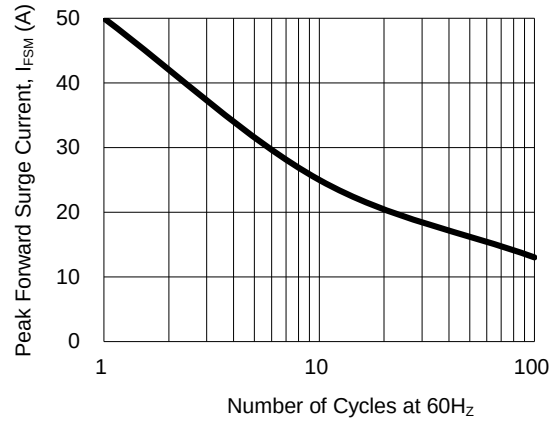


Fig.3 Typical Forward Voltage Characteristics

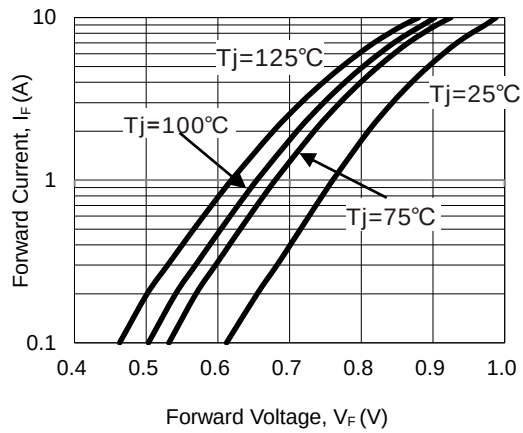
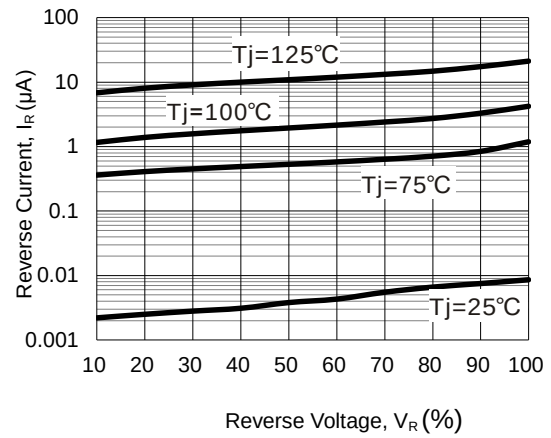


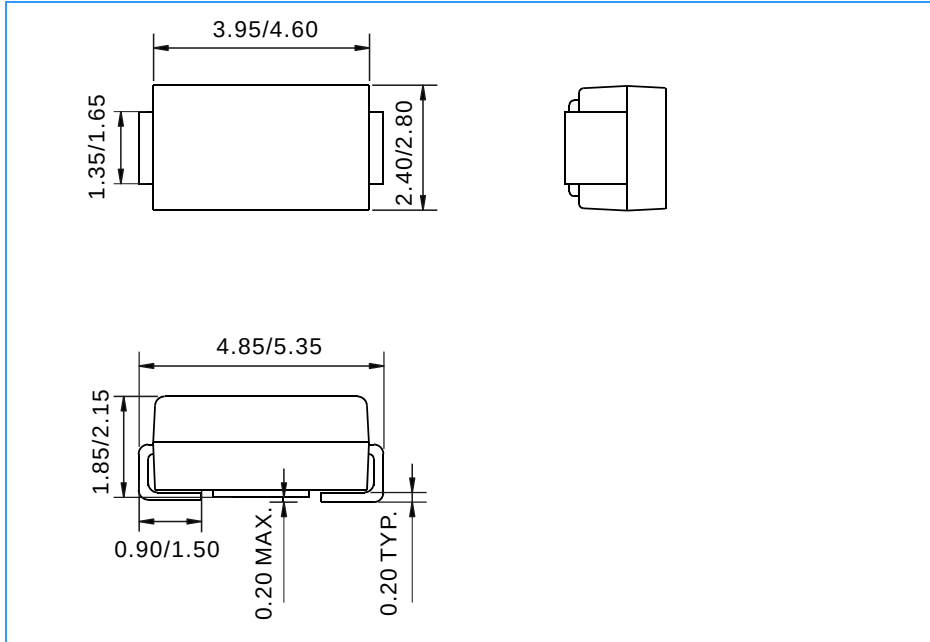
Fig.4 Typical Reverse Characteristics



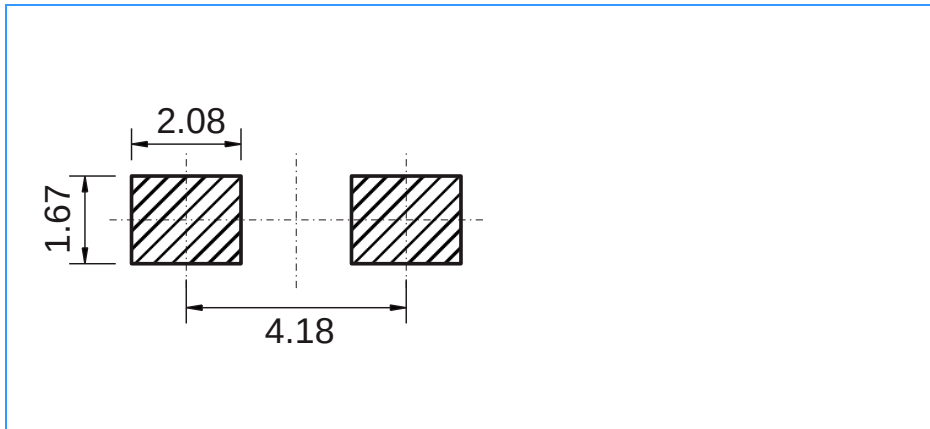
Schottky Barrier Rectifier

SS2150A - SS2200A

Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



Ordering Information

Part Number	Marking	Package	Shipping Quantity
SS2150A	SS2CA	SMA	5000 pcs / Tape & Reel
SS2200A	SS2DA	SMA	5000 pcs / Tape & Reel