

# SS22 THUR SS220

## SS22 THUR SS220 Schottky Barrier Rectifiers

### General description

2.0Amp Surface Mounted Schottky Barrier Rectifiers

### FEATURES

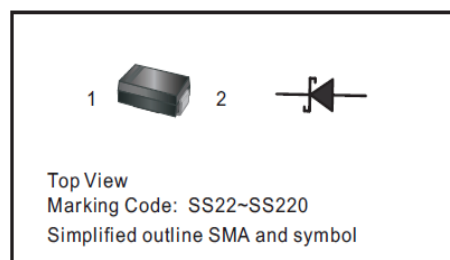
- Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

### MECHANICAL DATA

- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481) Weight: 0.002 ounce, 0.060 gram

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Maximum Ratings And Electrical Characteristics

Parameter	Symbols	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50								A
Max Instantaneous Forward Voltage at 2 A	$V_F$	0.55	0.70		0.85		0.95		V	
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$	$I_R$	0.5 5			0.3 3				mA	
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	220	80						pF	
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	80								$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +150								$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150								$^\circ\text{C}$

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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## Rating And Characteristic Curves

Fig.1 Forward Current Derating Curve

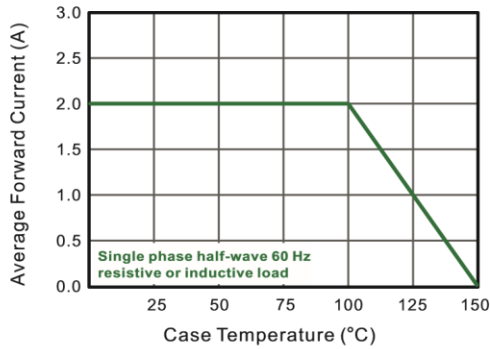


Fig.2 Typical Reverse Characteristics

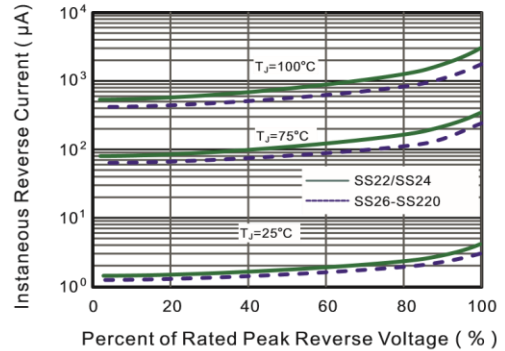


Fig.3 Typical Forward Characteristic

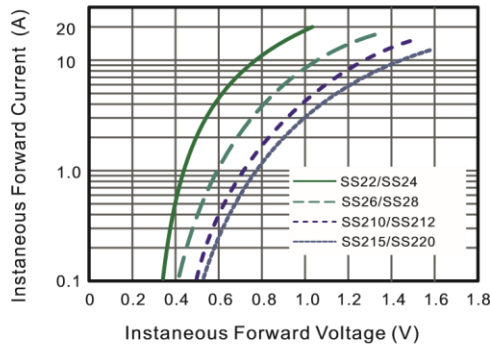


Fig.4 Typical Junction Capacitance

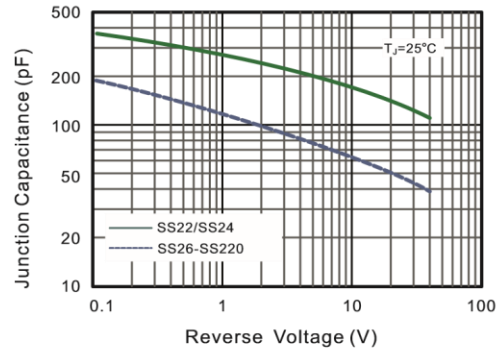


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

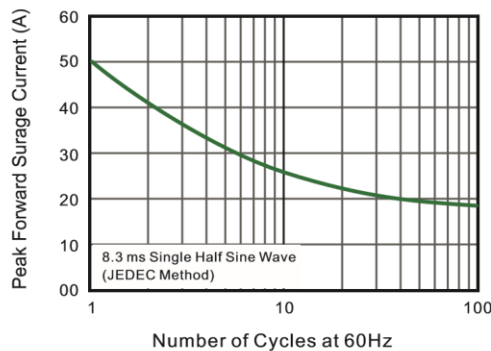
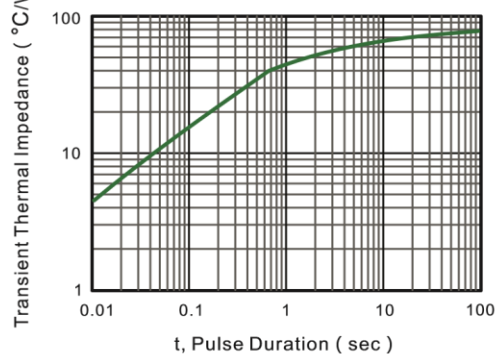


Fig.6- Typical Transient Thermal Impedance



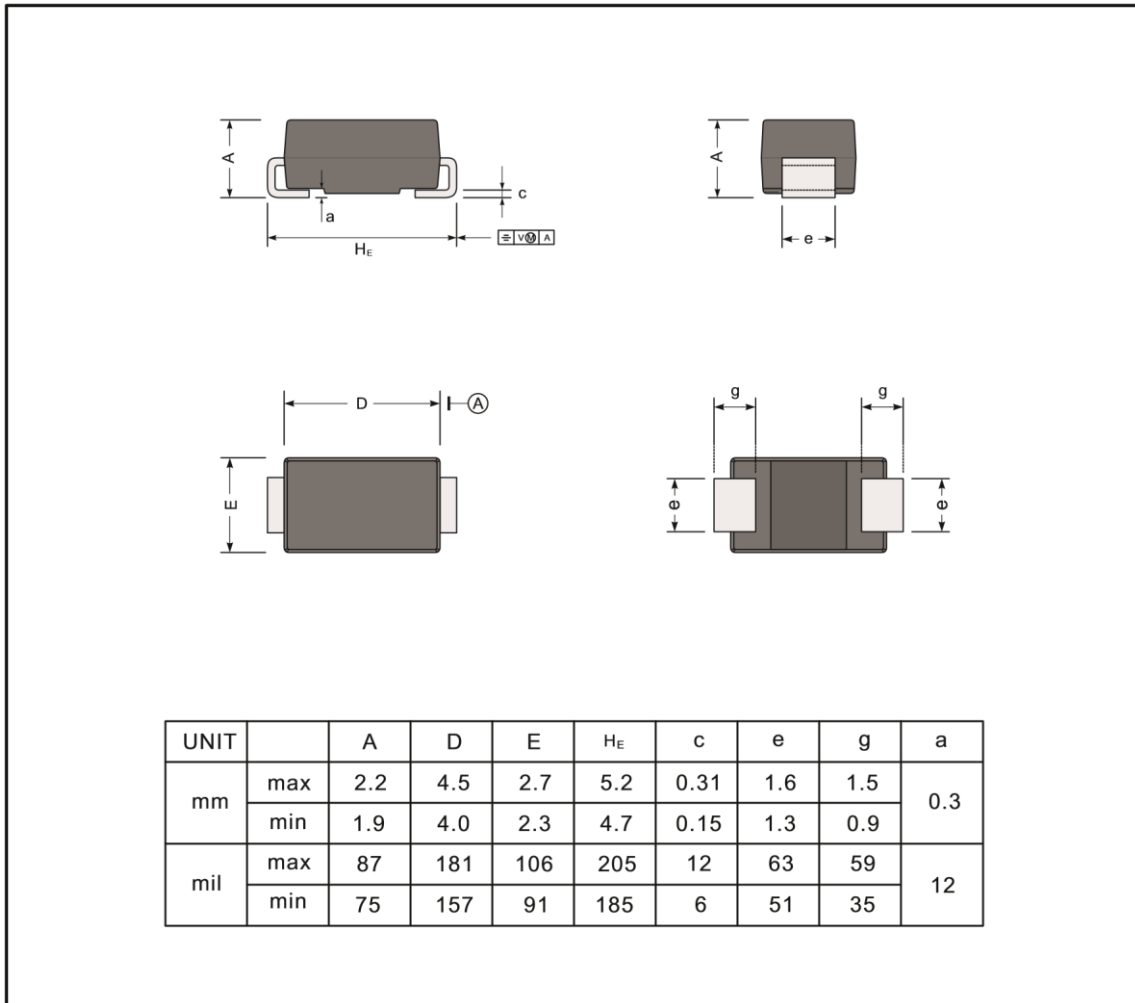


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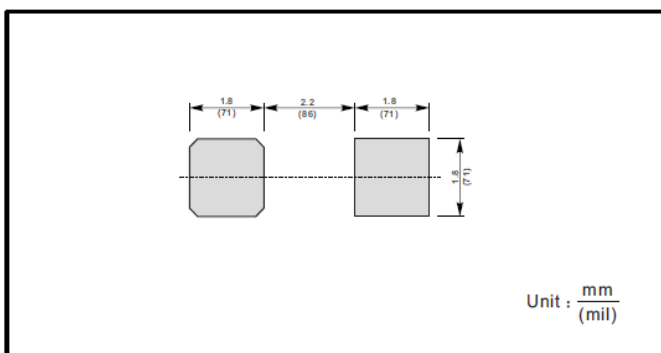
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



### The recommended mounting pad size



### Marking

Type number	Marking code
SS22	SS22
SS24	SS24
SS26	SS26
SS28	SS28
SS210	SS210
SS212	SS212
SS215	SS215
SS220	SS220

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