

SuperSchottky – 2A, 20~200V Schottky barrier rectifiers



1. Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminals

2. Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any
- Weight: 0.0023 ounce, 0.07 grams

3. Marking and Circuit

Marking	Circuit
	

4. Specification

Absolute Maximum Rating & Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load.

Parameters	Symbol	22A	24A	245A	26A	28A	210A	215A	220A	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	45	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	31.5	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	45	60	80	100	150	200	V
Average Rectified Output Current at T _L =100°C	I _{F(AV)}	2.0								A
Non-Repetitive Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50								A
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70	0.85		0.95		V	
Maximum DC reverse current at rated DC blocking voltage	T _J =25 °C	0.2				0.05				mA
	T _J =125 °C	10				5				
Typical thermal resistance	R _{θJA}	80								°C/W
Operating junction temperature range	T _J	-55 TO +125				-55 TO +150				°C
Storage temperature range	T _{STG}	-55 TO +150								°C

5. Typical Characteristic

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

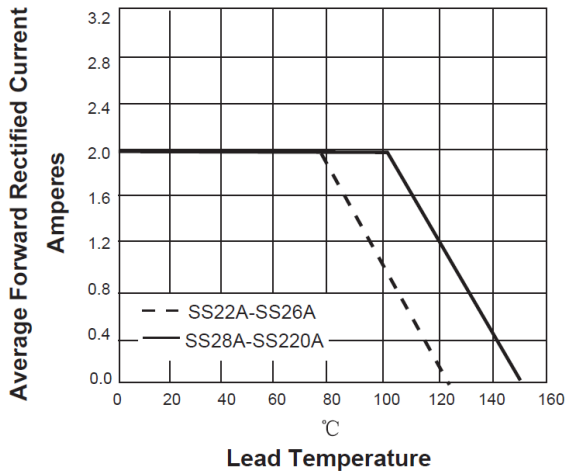


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

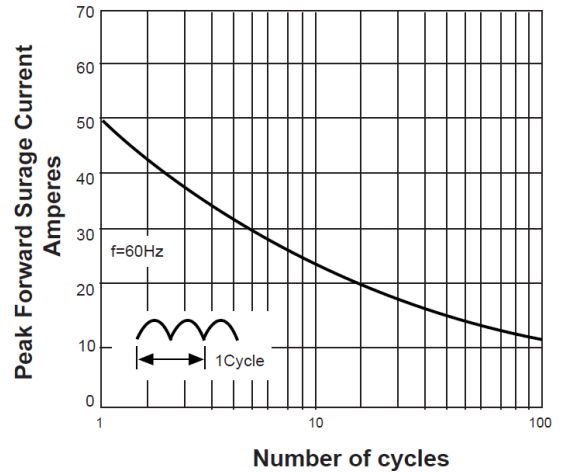


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

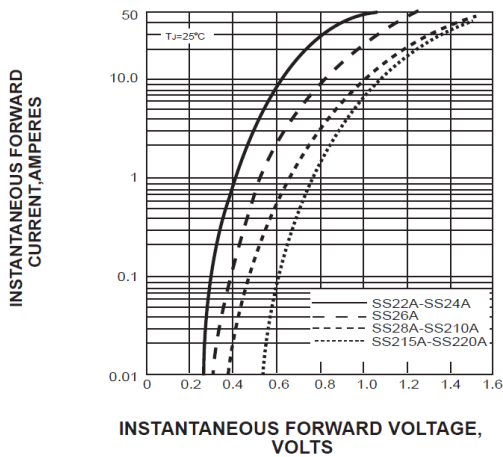
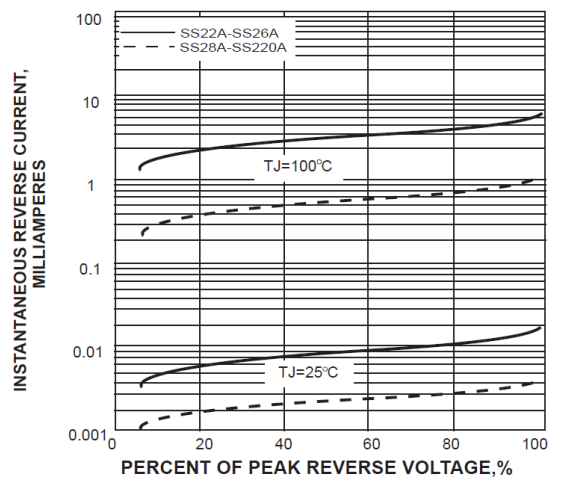
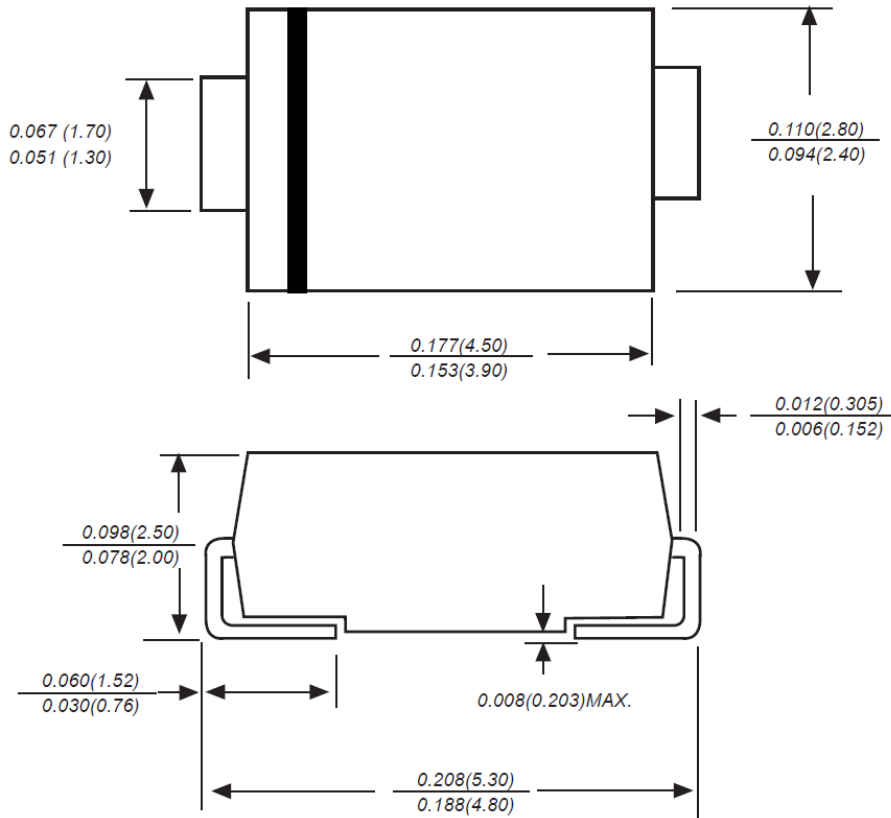


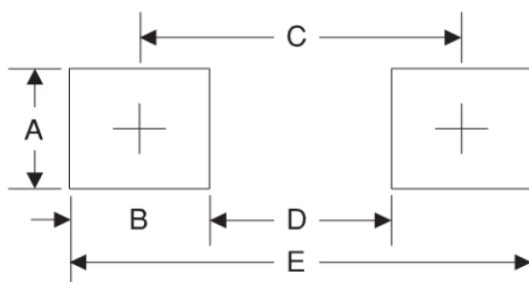
FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



6. Dimension (DO-214AC/SMA)



Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
B	1.52	0.060
C	3.90	0.154
D	2.41	0.095
E	5.45	0.215

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