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SuperSchottky – 5A, 20~200V Schottky barrier rectifiers

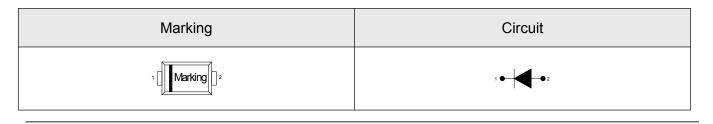
1. Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop

2. Mechanical Data

- Case: DO-214AA/SMB molded plastic body
- Terminals: leads solderable per MIL-STD-750, Method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0035 ounce, 0.098 grams

3. Marking and Circuit



4. Specification

Absolute Maximum Rating & Electrical Characteristics

Ratings at 25 $\,\,^\circ\!\text{C}\,$ ambient temperature unless otherwise specified.

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

Parameters		Symbol	SS52	SS54	SS56	SS58	SS510	SS515	SS520	Unit
Maximum repetitive 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 at TL=100 C		I _{F(AV)}	5.0						А	
Non-Repetitive Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	120					A		
Maximum Instantaneous Forward Voltage at 5.0 A		V _F	0.	55	0.70	0.	85	0.	95	V
Maximum DC reverse current at rated DC	TJ=25 ℃	I _R	0.5		0.05				mA	
blocking voltage	TJ=100 ℃		50			10				
Typical thermal resistance		R _{OJA}	85.0						°C/W	
Operating junction temperature range		TJ	-55 TO +150						°C	
Storage temperature range		T _{STG}	-55 TO +150					°C		



SS52 Thru SS520

Rev-1.1

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5. Typical Characteristic

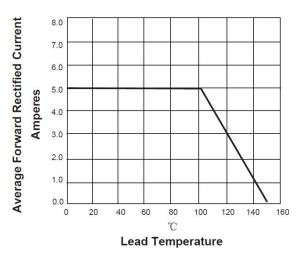
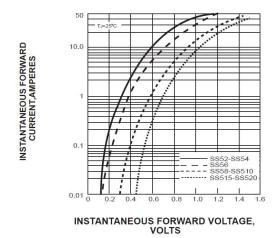


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS



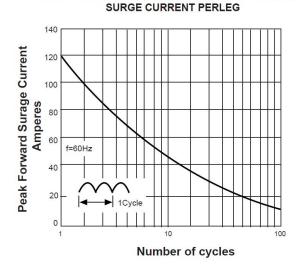
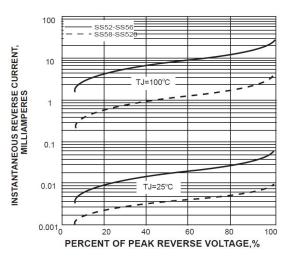


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD

FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

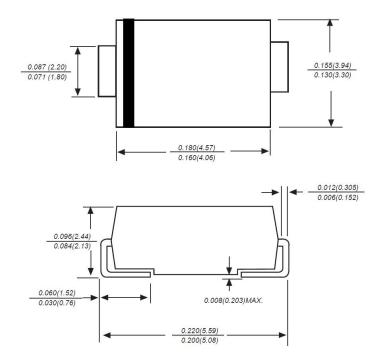




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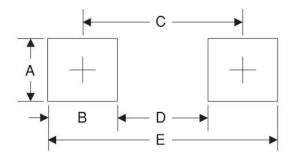
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6. Dimension (DO-214AA/SMB)



Dimensions in inches and (millimeters)

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
А	2.30	0.091
В	2.00	0.078
С	4.10	0.161
D	2.10	0.083
E	6.10	0.240

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