

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

Marking	Circuit
1 Marking 2	10—02

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	SS52B	SS54B	SS56B	SS58B	SS510B	SS515B	SS520B	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						Α	
Non-Repetitive Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	120					А		
Maximum Instantaneous Forward Voltage at 5.0 A		VF	0.	55	0.70	0.85 0.95		95	V	
laximum DC reverse current at rated DC TJ=25 ℃			0.5			0.05				A
blocking voltage	TJ=100 ℃	l _R	50			10				mA
Typical thermal resistance		Roja	85.0					°C/W		
Operating junction temperature range		TJ	-55 TO +150					$^{\circ}$		
Storage temperature range		T _{STG}	-55 TO +150					$^{\circ}$		

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5. Typical Characteristic

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

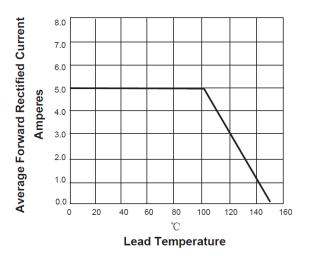


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

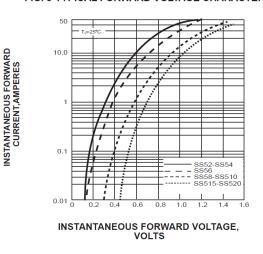


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

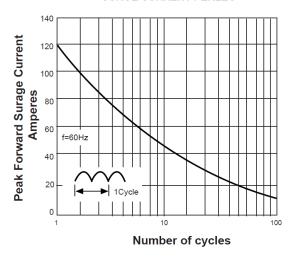
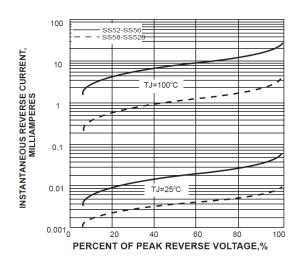
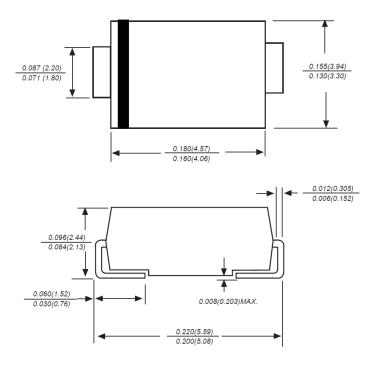


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



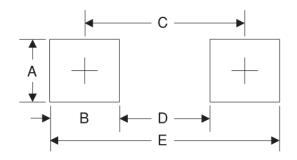


6. Dimension (DO-214AA/SMB)



Dimensions in inches and (millimeters)

Suggested Pad Layout



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

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