



Trench MOS Barrier Schottky Rectifier - 5Amp 100Volt

Features

- -Low forward voltage drop
- -High current capability
- -High reliability
- -High surge current capability
- -Epitaxial construction

Mechanical data

-Case: Molded plastic

-Epoxy: UL 94V-0 rate flame retardant

-Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed

-Polarity: Color band denotes cathode end

-Mounting position: Any -Weight: 1.2 grams

■ Maximum ratings and Electrical characteristics

Parameters		SB5100W(H)	UNIT
Maximum Recurrent Peak Reverse Voltage		100	V
Maximum RMS Voltage		70	V
Maximum DC Blocking Voltage		100	V
Maximum Average Forward Rectified Current		5	А
Peak Forward Surge Current		100	А
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.55	V
	Tc = 125°C	0.52	T v
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.2	mA
	Tc = 125°C	50	IIIA
Typical Junction Capacitance		500	pF
Typical Thermal Resistance ReJA		25	°C/W
Operating and Storage Temperature Range		-50 to +150	°C

Note: 1. H means Halogen-Free

2. Mounted on P.C.B with copper pad size 16mm x 16mm, vertical P.C.B 9.5mm lead lengths

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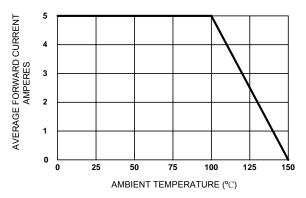
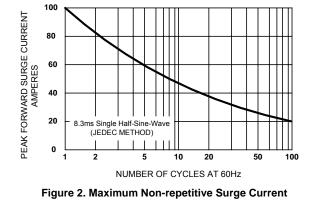


Figure 1. Forward Current Derating Curve



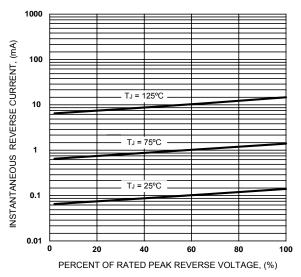


Figure 3. Typical Reverse Characteristics

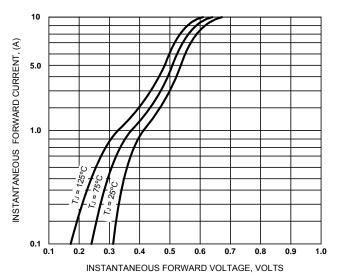


Figure 4. Typical Forward Characteristics

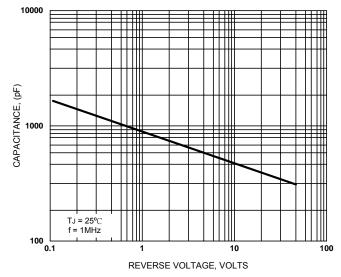
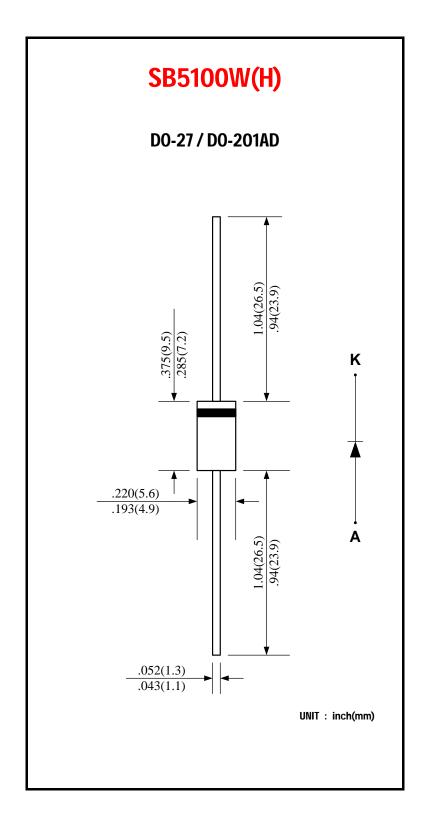


Figure 5. Typical Junction Capacitance





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