

Trench MOS Barrier Schottky Rectifier - 10Amp 300Volt

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	SB10300V(H)	UNIT
Maximum Recurrent Peak Reverse Voltage	300	V
Maximum RMS Voltage	210	V
Maximum DC Blocking Voltage	300	V
Maximum Average Forward Rectified Current	10	A
Peak Forward Surge Current	125	A
Maximum Instantaneous Forward Voltage at 10A	Tc = 25°C	1.00
	Tc = 125°C	0.80
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.1
	Tc = 125°C	10
Typical Junction Capacitance	500	pF
Typical Thermal Resistance R _{θJA}	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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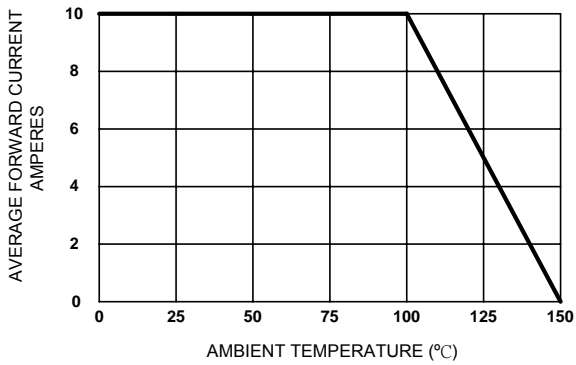


Figure 1. Forward Current Derating Curve

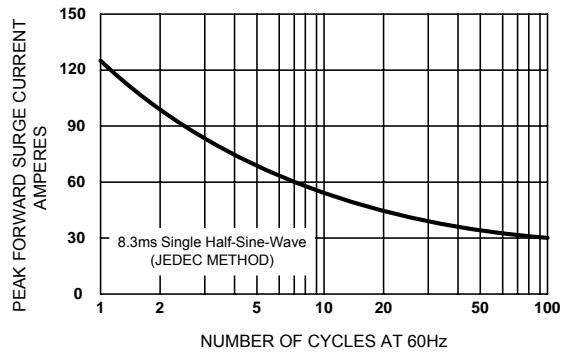


Figure 2. Maximum Non-repetitive Surge Current

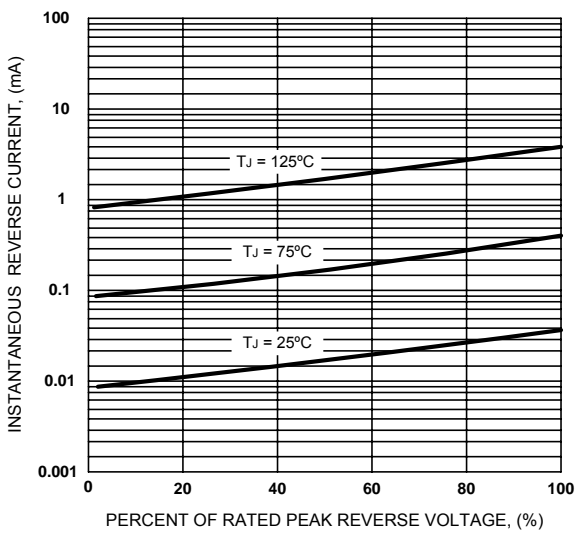


Figure 3. Typical Reverse Characteristics

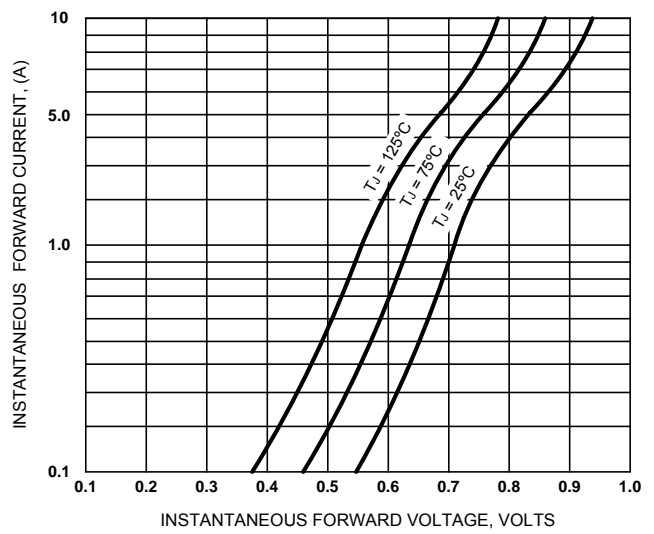


Figure 4. Typical Forward Characteristics

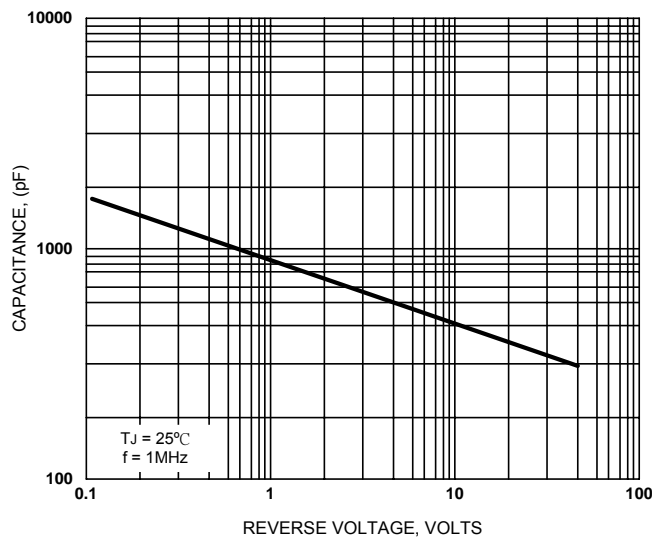
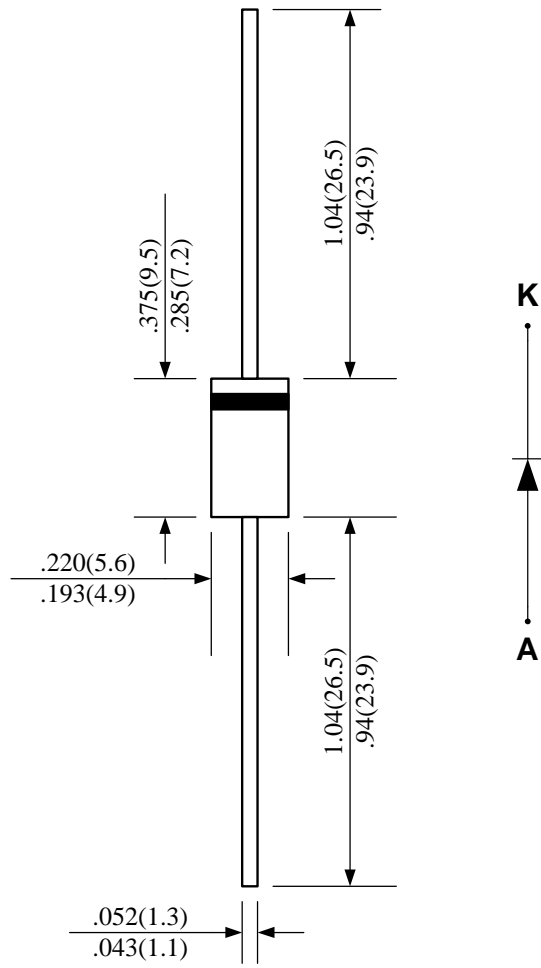


Figure 5. Typical Junction Capacitance

SB10300V(H)

D0-27 / D0-201AD



UNIT : inch(mm)

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