

## Trench MOS Barrier Schottky Rectifier - 5Amp 40Volt

**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		SB540V(H)	UNIT
Maximum Recurrent Peak Reverse Voltage		40	V
Maximum RMS Voltage		28	V
Maximum DC Blocking Voltage		40	V
Maximum Average Forward Rectified Current		5	A
Peak Forward Surge Current		125	A
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.50	V
	Tc = 125°C	0.45	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5	mA
	Tc = 125°C	50	
Typical Junction Capacitance		500	pF
Typical Thermal Resistance R <sub>θJA</sub>		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

June 2014 / Rev.7.0

# SB540V(H)

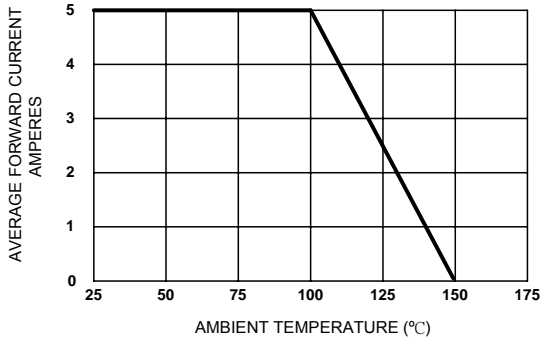


Figure 1. Forward Current Derating Curve

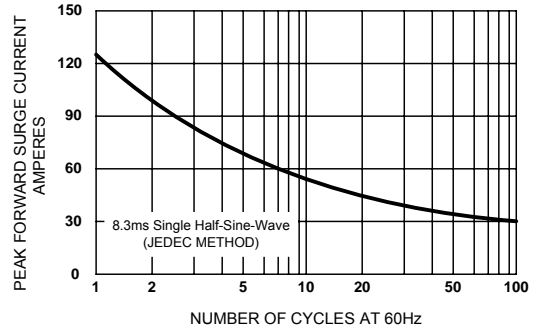


Figure 2. Maximum Non-repetitive Surge Current

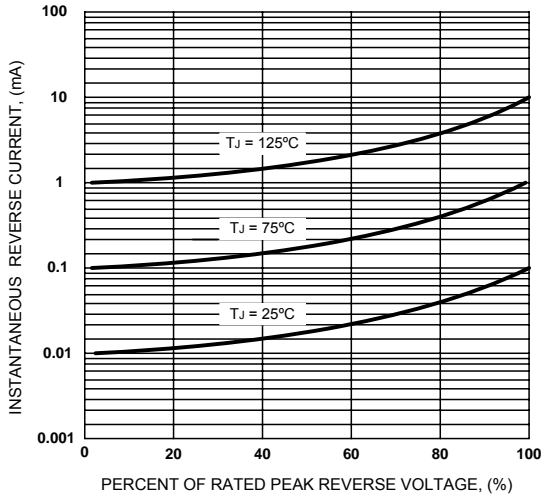


Figure 3. Typical Reverse Characteristics

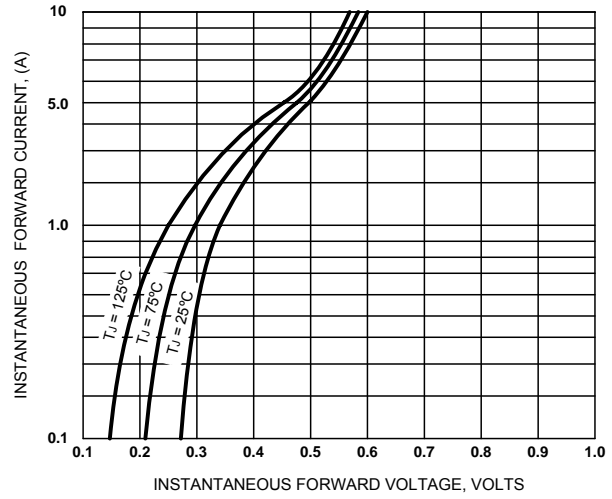


Figure 4. Typical Forward Characteristics

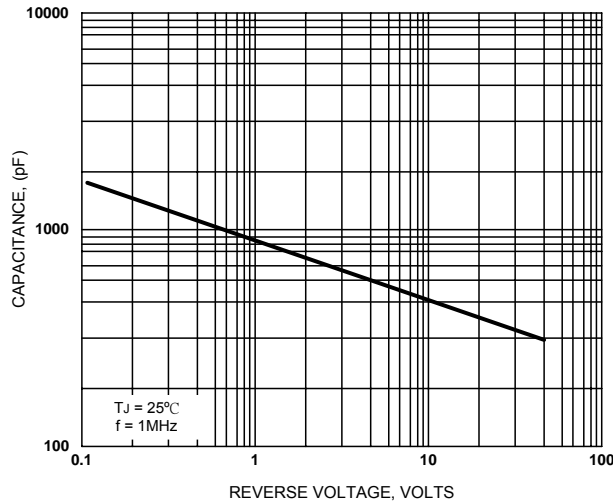


Figure 5. Typical Junction Capacitance



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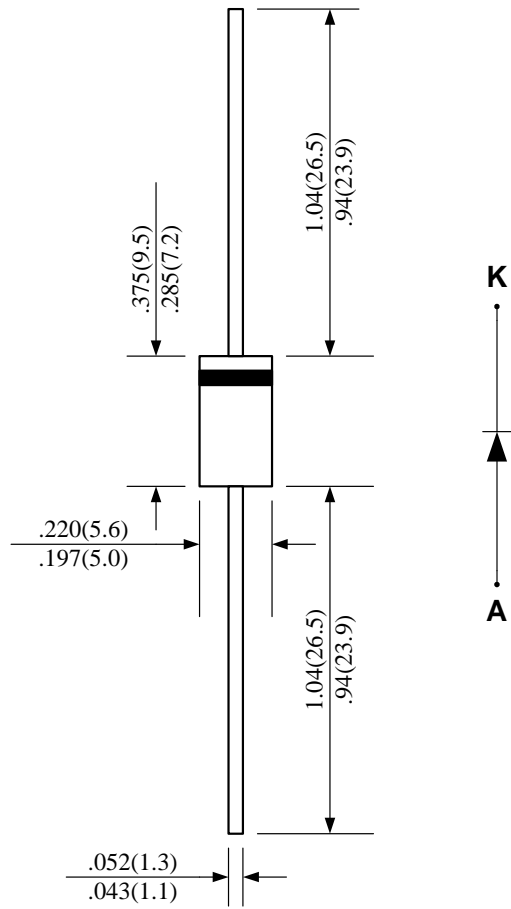
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**SB540V(H)**

**D0-27 / D0-201AD**



UNIT : inch(mm)