SIRECT ELECTRONIC

SB10100V(H)

Trench MOS Barrier Schottky Rectifier - 10Amp 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		SB10100V(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		10	A
Peak Forward Surge Current		125	A
Maximum Instantaneous Forward Voltage at 10A	Tc = 25ºC	0.68	V
	Tc = 125ºC	0.62	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25ºC	0.2	mA
	Tc = 125ºC	50	
Typical Junction Capacitance		500	pF
Typical Thermal Resistance RθJA		25	ºC/W
Operating and Storage Temperature Range		-50 to +150	ºC

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

December 2018 / Rev.7.2

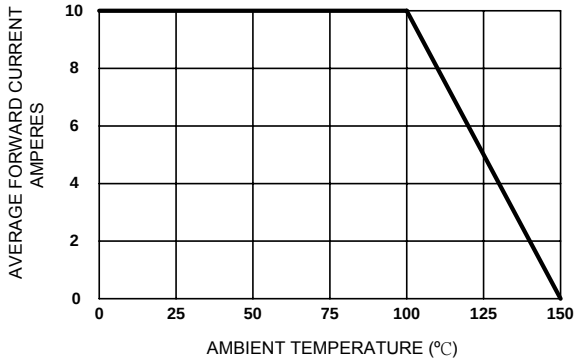

Figure 1. Forward Current Derating Curve

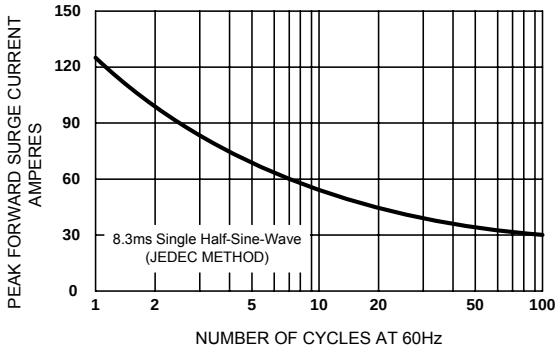

Figure 2. Maximum Non-repetitive Surge Current

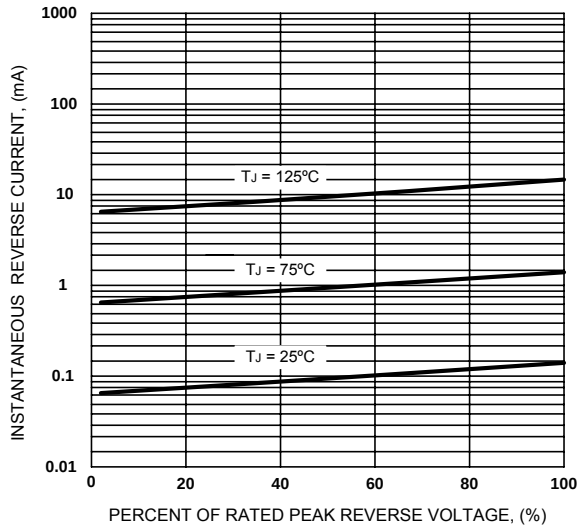

Figure 3. Typical Reverse Characteristics

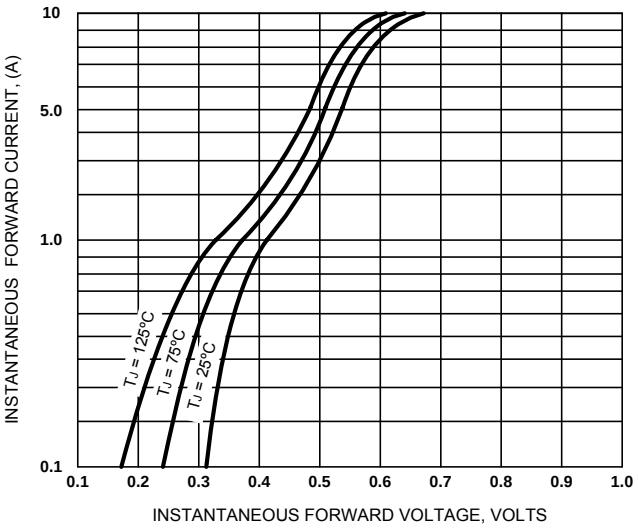

Figure 4. Typical Forward Characteristics

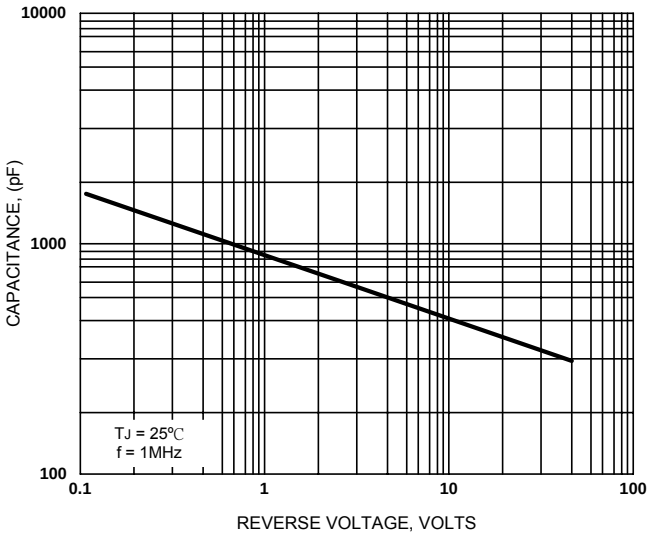

Figure 5. Typical Junction Capacitance

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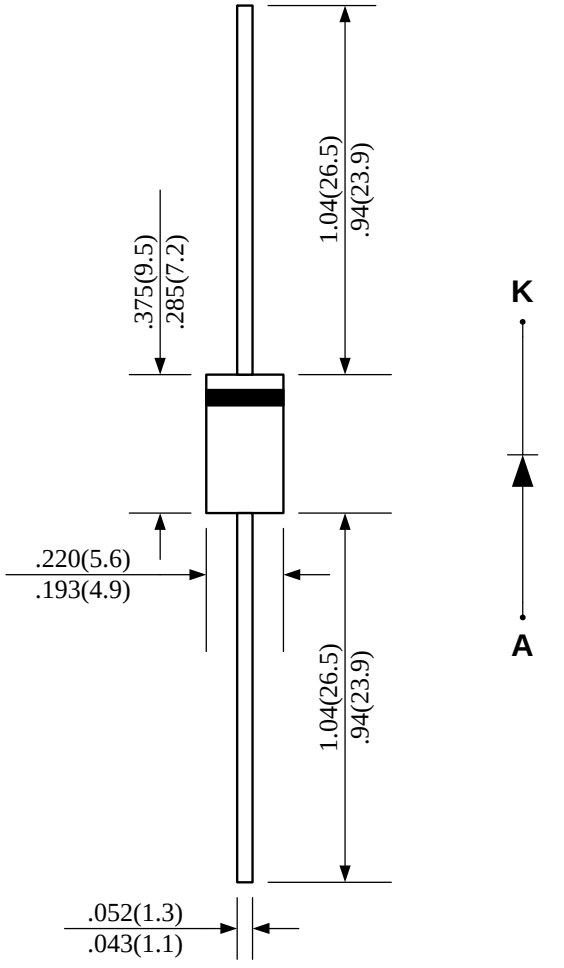
DO-27 / DO-201AD



UNIT : inch(mm)

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