

SB545V(H)

Trench MOS Barrier Schottky Rectifier - 5Amp 45Volt

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		SB545V(H)	UNIT
Maximum Recurrent Peak Reverse Voltage		45	V
Maximum RMS Voltage		31	V
Maximum DC Blocking Voltage		45	V
Maximum Average Forward Rectified Current		5	А
Peak Forward Surge Current		100	А
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.45	V
	Tc = 125°C	0.40	
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 ReJA		25	°C/W
Operating and Storage Temperature Range		-50 to +150	٥C

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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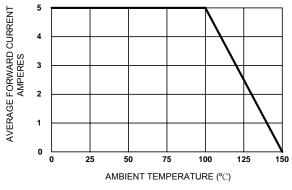


Figure 1. Forward Current Derating Curve

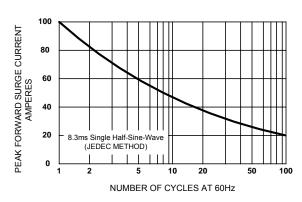
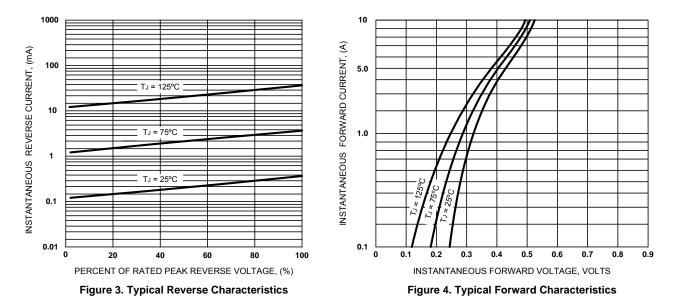


Figure 2. Maximum Non-repetitive Surge Current



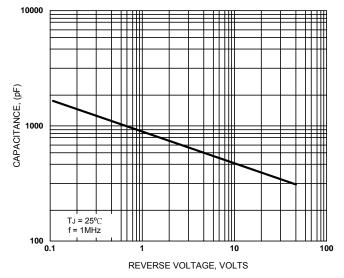
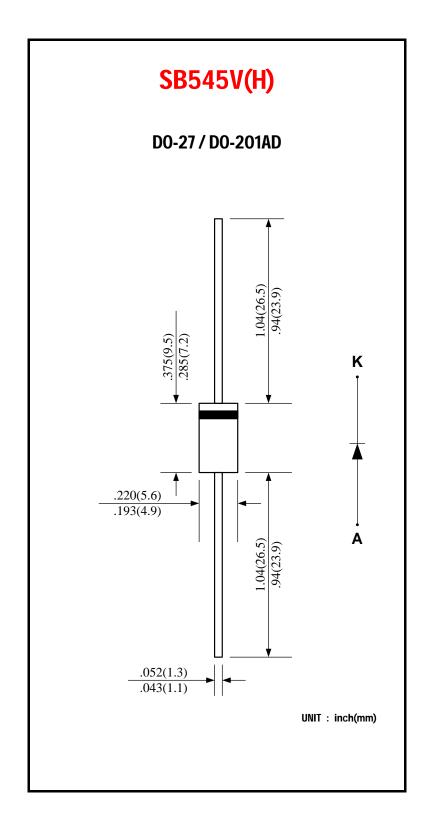


Figure 5. Typical Junction Capacitance





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