

SBL16B45IH/DH

Power Schottky Rectifier - 16Amp 45Volt

Features

-Plastic package has Underwriters Laboratory Flammability Classifications 94V-0

-High Junction Temperature Capability

-Low forward voltage, high current capability

-High surge capacity

-Low power loss, high efficiency

-Halogen-Free

Application

-Switching-Mode Power Supply -Solar-System Control Box

□ Absolute maximum ratings

Symbol	Ratings	Unit	Conditions	
lF(AV)	16	А	Average Forward Current	
Vrrm	45	V	Repetitive Peak Reverse Voltage	
IFSM	150	А	Peak Forward Surge Current	
VF	0.50	V	Forward Voltage Drop	
Tj , Tstg	-50 to +150	°C	Operating and Storage Temperature	

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
			Per Leg at IF = 8A
Maximum Instantaneous Forward Voltage	Vf	0.55V	Tc = 25°C
		0.50V	Tc = 125°C
Maximum Reverse Leakage Current	lr	1.0mA	Per Leg at VR = 45V Tc = 25°C
Typical Thermal Resistance, Junction to Case	Re (j-c)	7 °C/W	Per Leg TO-251 / TO-252

Note : 1.Mounted on P.C.B with copper pad size 20mm x 30mm, thickness 1.5mm

2.Reverse Surge 3.0A @ 0.004ms, 10 cycle

3.Repetitive Peak Reverse Current (IRRM) 0.5A @ Per Leg at tp = 2µs, 1kHz

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Figure 1. Forward Current Derating Curve







Figure 4. Typical Forward Characteristics



Figure 5. Typical Junction Capacitance







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