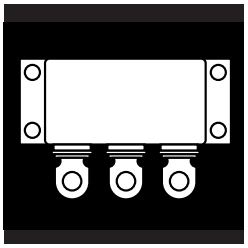
150 AMP SCHOTTKY CENTER-TAP IN HERMETIC ISOLATED POWER BLOCK PACKAGE



150 Amp, 45, 60 And 100 Volt Power Schottky Center-Tap Rectifier

FEATURES

- Two Isolated Schottky Rectifiers In A Hermetic Power Package
- Very Low Forward Voltage
- High Current
- High Efficiency For Low Voltage Supplies
- Rugged Package Design
- Solder Terminals
- Center-Tap Configuration
- Common Cathode Standard
- Ceramic Feedthroughs Available
- Available Screened To MIL-S-19500, TX, TXV And S Levels

DESCRIPTION

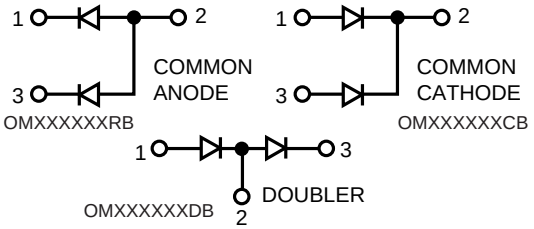
This hermetic module has two high current Schottky diodes arranged in a common cathode configuration and is ideally suited for a full wave output rectifier in low voltage switching power supplies where small size and high reliability are required. It combines the latest Schottky semiconductor technology and a package designed specifically for high efficiency and high current applications.

ABSOLUTE MAXIMUM RATINGS (Per Diode) @ 25°C

Peak Inverse Voltage . . . . . 45, 60 & 100 V
Maximum Average D.C. Output Current @ T_C = 100° C . . . . . 75 A
Peak Surge Current (Non-Repetitive, 8.3 ms) . . . . . 800 A
Peak Reverse Transient Current . . . . . 2 A
Storage Temperature Range, T_{stg} . . . . . 55° C to + 150°C
Junction Operating Temperature, T_{jmax} . . . . . 55° C to + 150°C
Package Thermal Resistance, Junction-to-Case . . . . . 1.1°C/W

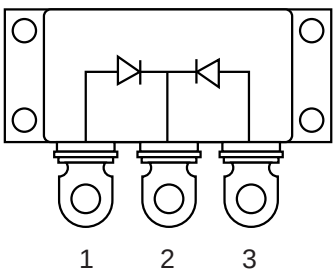
3.2

SCHEMATIC



Common cathode is standard. Contact factory for performance characteristics for common anode and doubler.

PIN CONNECTION



OM150B45CB/RB/DB OM150B60CB/RB/DB OM150B100CB/RB/DB

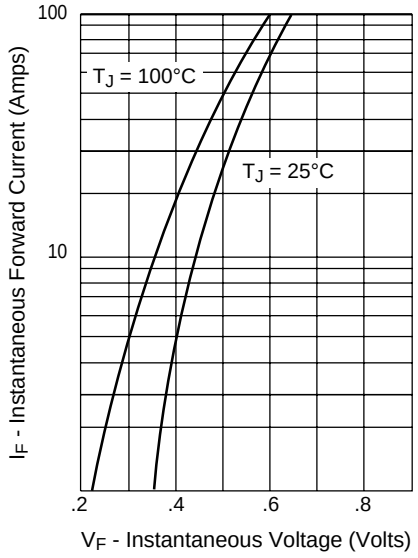
ELECTRICAL CHARACTERISTICS (Per Diode)

Part Number	PIV	Maximum Forward Voltage @ I_F = 75A (1)		Maximum Reverse Current @ PIV	
		T_j = 25° C	T_j = 100° C	T_j = 25° C	T_j = 100° C
OM150B45XX	45 V	.55 V	.50 V	10 mA	150 mA V
OM150B60XX	60 V	.67 V	.60 V		
OM150B100XX	100 V	.77 V	.70 V		

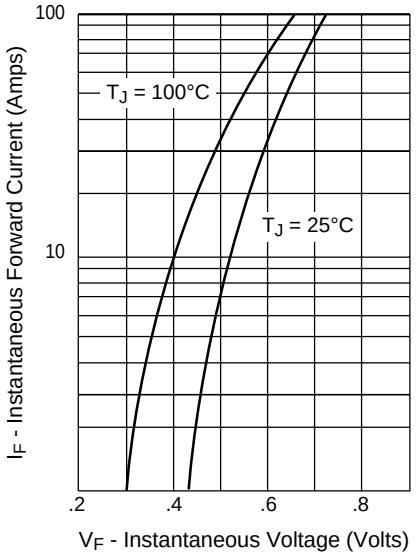
Note: (1) Pulse Test: Pulse Width = 300μs, Duty Cycle 2.0%.

Typical Forward Voltage

OM150B45CB
OM150B60CB



OM150B100CB



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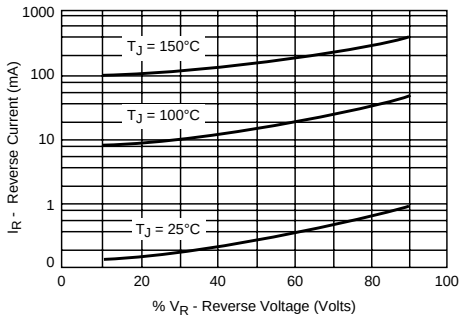
Typical Reverse Current



Mechanical Outline