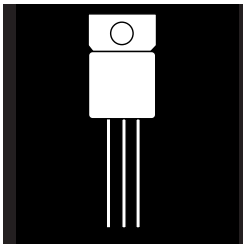
HERMETIC TO-257AA DUAL POWER SCHOTTKY RECTIFIER



16 Amp, 45 Volt Rating Center-Tap Rectifier

FEATURES

- Very Low Forward Voltage
- Low Recovery Charge
- Rugged Package Design, (JEDEC TO-257AA)
- High Efficiency For Low Voltage Supplies
- 45V Blocking @ Rated T_{jmax}
- 50V Repetitive Surge Voltage
- Dual Schottky Rectifier In A Single Isolated Package
- Available Non-Isolated (OM4201NT); Common Cathode Only
- Available Screened To MIL-S-19500, TX, TXV And S Levels

DESCRIPTION

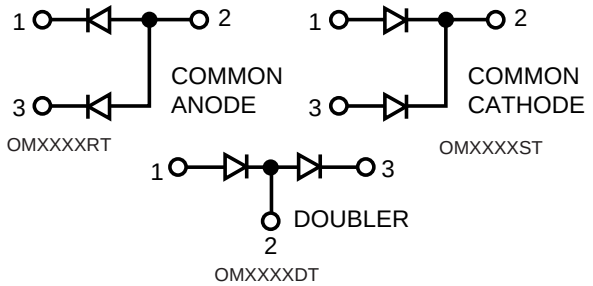
The OM4201ST has two Schottky barriers arranged in a common cathode configuration and is ideally suited for a full wave output rectifier in low voltage switching power supplies where small size and high reliablity are required. Common anode and doubler configurations also available.

ABSOLUTE MAXIMUM RATINGS (T_C = 25°C) Per Diode

Peak Inverse Voltage	45 V
Maximum Average D.C. Output Current	8 A
Peak Surge Current (Non-Repetitive, 8.3mS)	100 A
Peak Reverse Transient Current	1.0 A
Storage Temperature Range	- 55° C to + 175° C
Junction Operating Temperature Range	- 55° C to + 150° C
Package Thermal Resistance, Junction-to-Case	2.5° C/W

3.2

SCHEMATIC



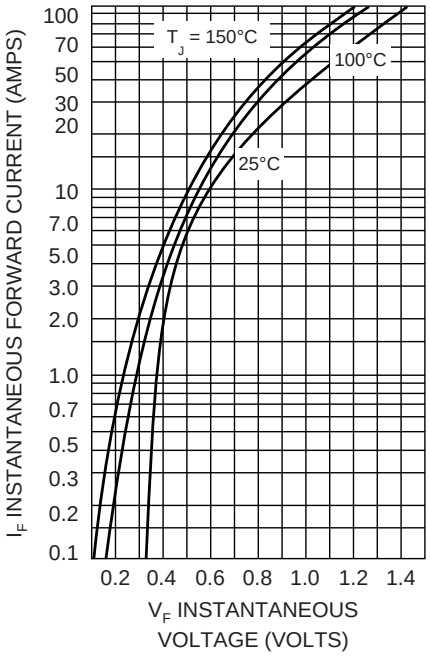
Common cathode is standard. Contact the factory for performance characteristics for common anode and doubler.
Z-Tab package also available.

ELECTRICAL CHARACTERISTICS (T_C = 25°C) (Per Diode)

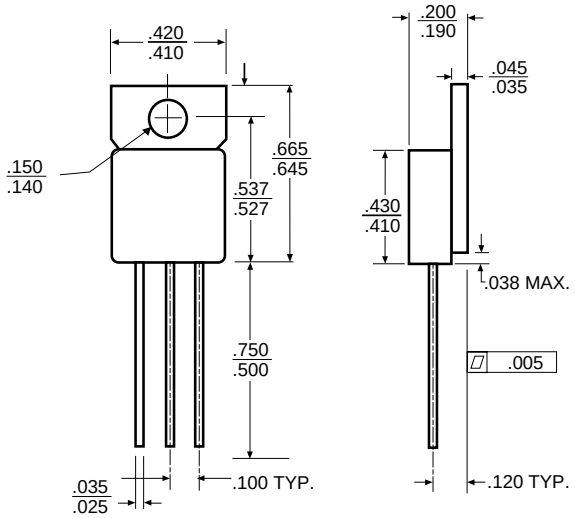
Characteristic	Symbol	Max.	Unit
Maximum Instantaneous Forward Voltage (1)	V_F		V
I_F = 10A, T_C = 125°C		0.70	
I_F = 10A, T_C = 25°C		0.85	
Maximum Instantaneous Reverse Current (1)	I_R		mA
Rated dc Voltage, T_C = 125°C		15	
Rated dc Voltage, T_C = 25°C		1.0	
Capacitance	C_t	500	pf
V_R = 5.0 V			

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

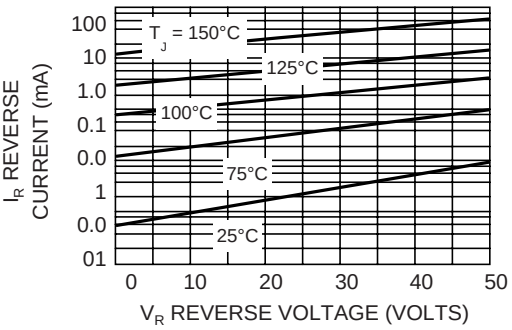
TYPICAL FORWARD VOLTAGE



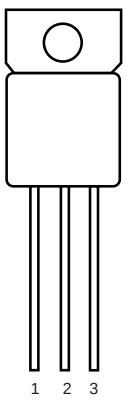
MECHANICAL OUTLINE



MAXIMUM REVERSE CURRENT



PIN CONNECTION



3.2