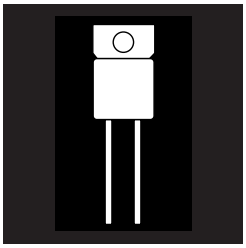
15 AMP SCHOTTKY RECTIFIER IN SMALL HERMETIC PACKAGE



15 Amp, 45 and 60 Volt Schottky Rectifier

FEATURES

- Small Size
- Very Low Forward Voltage
- Very Fast Switching Time
- Hermetic Metal Package
- Low Thermal Resistance
- Isolated Package
- 45V And 60V Reverse Voltage
- Available Screened To MIL-S-19500, TX, TXV And S Levels

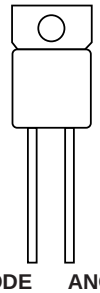
DESCRIPTION

This product is specifically designed high density, high power applications where small size, light weight and high reliability are required. This product combines the latest Schottky semi-conductor technology mounted in an easy-to-use small hermetic isolated metal package. These devices are ideally suited for demanding high frequency applications such as switching power supplies and motor controls.

ABSOLUTE MAXIMUM RATINGS @ 25°C

Peak Inverse Voltage . . . . . .OM4001ST = 45V/OM4002ST = 60 V
Maximum Average D.C. Output Current @ T_C = 100° C . . . . . 15 A
Peak Surge Current (Non-repetitive, 8.3mS) . . . . . 150 A
Storage Temperature Range . . . . . -55°C to 175°C
Junction Operating Temperature Range. . . . . -55°C to 150°C
Package Thermal Resistance, Junction to Case . . . . . 2.0°C/W

PIN CONNECTION



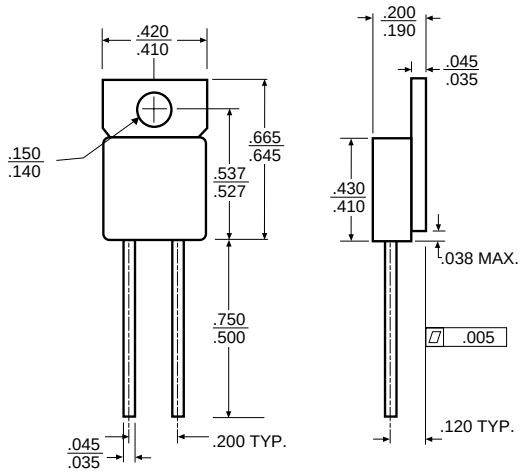
CATHODE ANODE

ELECTRICAL CHARACTERISTICS

Symbol	Characteristic	Conditions	Limits	Type
V_{RWM}	Working Peak Reverse	OM4001ST	45	V
		OM4002ST	60	V
V_R	DC Blocking Voltage	OM4001ST	45	V
		OM4002ST	60	V
i_R	Maximum Instantaneous Reverse Current*	T_C = 25°C @ V_R	5	mA
		T_C = 125°C @ V_R	150	mA
V_F	Maximum Instantaneous Forward Voltage	T_C = 25°C, I_F = 15A	.750	V
		T_C = 125°C, I_F = 15A	.725	V
C_t	Capacitance	V_R = 5.0V	800	pf

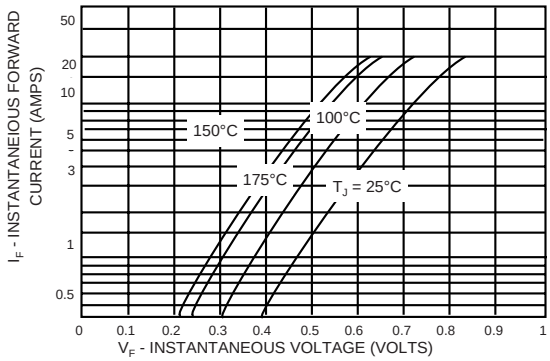
***Pulse Test Width =** 300μsec, 2% Duty Cycle.

MECHANICAL OUTLINE



3.2

TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT

