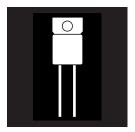
#### OM4003ST OM4005ST OM4007ST OM4004ST OM4006ST

# 10 AMP SCHOTTKY RECTIFIER IN SMALL HERMETIC PACKAGE



10 Amp, 60 To 100 Volt Schottky Rectifiers

## **FEATURES**

#### Small Size

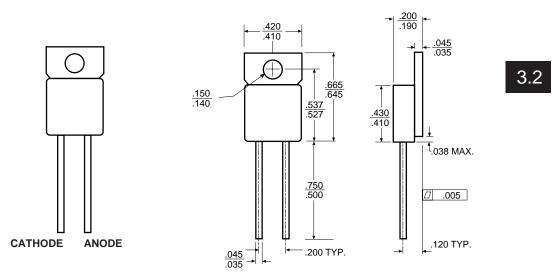
- Very Low Forward Voltage
- Low Recovered Charge
- Rugged Package Design
- · High Efficiency for Low Voltage Supplies
- Hermetic and Isolated Package
- Available Screened To MIL-S-19500, TX, TXV And S Levels

## DESCRIPTION

This series of Schottky barrier diodes offers low forward voltage and high output current for its small package size. The OM4003 series was designed for demanding applications where small size, light weight and high reliability are required. These devices are ideal replacements for TO-3, DO-4 or DO-5 packages. All products are available Hi-Rel screened.

### **PIN CONNECTION**

## **MECHANICAL OUTLINE**



4 11 R2 Supersedes 1 07 R1

### OM4003ST - OM4007ST

## **MAXIMUM RATINGS**

Rating	Symbol	OM					Unit
		4003	4004	4005	4006	4007	]
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	60	70	80	90	100	Volts
Working Peak Reverse Voltage	V <sub>RWM</sub>						
DC Blocking Voltage	V <sub>R</sub>						
Average Rectified Forward Current (Rated $V_R$ ) $T_C = 100^{\circ}$ C	I <sub>F(AV)</sub>	10					Amps
Peak Repetitive Forward Current	I <sub>FRM</sub>	20					Amps
(Rated $V_R$ , Square Wave, 20 kHz) $T_C$ = 100° C							
Nonrepetitive Peak Surge Current	I <sub>FSM</sub>	150					Amps
(Surge applied at rated load conditions halfwave,							
single phase, 60 Hz)							
Peak Repetitive Reverse Surge Current (2 µs, 1 kHz)	I <sub>RRM</sub>	0.5					Amps
Operating Junction Temperature	TJ	-65 to +150					°C
Storage Temperature	T <sub>stg</sub>	-65 to +175					°C
THERMAL CHARACTERISTICS							
Maximum Thermal Resistance	R <sub>qJC</sub>	3					° C/W
ELECTRICAL CHARACTERISTICS							
Maximum Instantaneous Forward Voltage (1)	V <sub>F</sub>					Volts	
(i <sub>F</sub> = 10 Amp, T <sub>C</sub> = 125° C)		.725					
(i <sub>F</sub> = 10 Amp, T <sub>C</sub> = 25° C)		.825					
Maximum Instantaneous Forward Reverse Current (1)	i <sub>R</sub>						mA
(Related dc Voltage, $T_c = 125^{\circ} C$ )		150					
(Related dc Voltage, $T_c = 25^{\circ} \text{ C}$ )		5					

(1) Pulse Test: Pulse Width = 300  $\mu$ s, Duty Cycle 2%

