

OM5020NM OM5022NM OM5024NM  
OM5021NM OM5023NM OM5025NM

# 12 AMP ULTRA FAST POWER RECTIFIER IN HERMETIC SURFACE MOUNT PACKAGE



**Surface Mount 12 Amp, 50V To 600V,  
35 To 70 nsec**

## FEATURES

- Small Size Hermetic Surface Mount Package
- Very Low Forward Voltage
- Very Fast Switching Time
- High Current
- High Surge
- Low Thermal Resistance
- Available Hi-Rel Screened

## DESCRIPTION

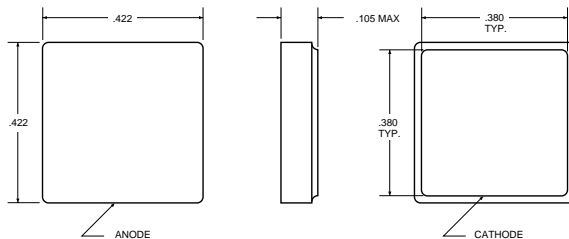
This series of products in a hermetic surface mount package is specifically designed for use at power switching frequencies in excess of 100 kHz. These devices are ideally suited for Hi-Rel surface mount applications where high current, small size and a hermetically sealed package are required. All devices are available Hi-Rel screened in Omnirel's facility.

## ABSOLUTE MAXIMUM RATINGS ( $T_c = 25^\circ\text{C}$ )

Peak Inverse Voltage ..... 50 to 600 V  
Maximum Average D.C. Output Current @  $T_c = 100^\circ\text{C}$  ..... 12 A  
Non-Repetitive Sinusoidal Surge Current 8.3 mS ..... 100 A  
Storage Temperature Range .....  $-55^\circ\text{C}$  to  $+175^\circ\text{C}$   
Junction Operating Temperature Range .....  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$

3.2

## MECHANICAL OUTLINE

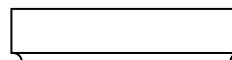


NOTE: OMNIREL PART NUMBER  
TO BE PRINTED ON ANODE SIDE

Maximum Soldering Temp =  $250^\circ\text{C}$ , 3 sec.

## CONNECTION DIAGRAM

ANODE-TOP



CATHODE - BOTTOM

Note: Part number marking is on  
the anode (top) surface.

For additional test conditions and limits, see Sect. 3.5, pg. 3.5 - 69.