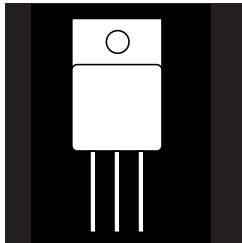


OM5221SA/RA/DA OM5223SA/RA/DA OM5225SA/RA/DA
OM5222SA/RA/DA OM5224SA/RA/DA OM5226SA/RA/DA

HERMETIC JEDEC TO-254AA HIGH EFFICIENCY, CENTER-TAP RECTIFIER



24 Amp, 50 To 600 Volts, 35 To 50 nsec

FEATURES

- Very Low Forward Voltage
- Very Fast Switching Speed
- Hermetic Metal Package, JEDEC TO-254AA
- High Surge
- Small Size
- Isolated Package
- Ceramic Feedthroughs Available
- Available Screened To MIL-S-19500, TX, TXV And S Levels

DESCRIPTION

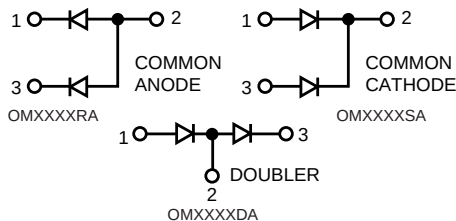
This series of products in a hermetic package is specifically designed for use at power switching frequencies in excess of 100 kHz. The series combines two high efficiency devices into one package, simplifying installation, reducing heat sink hardware, and the need to obtain matched components. These devices are ideally suited for Hi-Rel applications where small size and a hermetically sealed package is required.

ABSOLUTE MAXIMUM RATINGS (Per Diode) @ 25°C

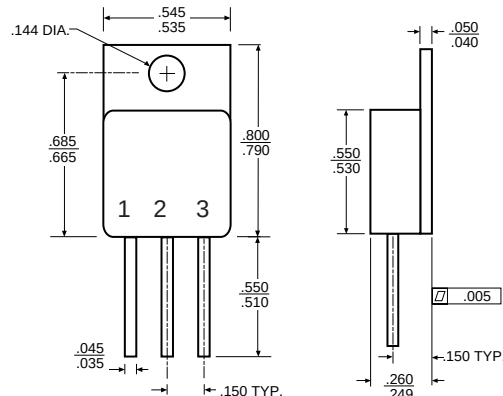
Peak Inverse Voltage 50 to 600 V
Maximum Average D.C. Output Current @ $T_C = 100^\circ \text{C}$ 12 A
Non-Repetitive Sinusoidal Surge Current 8.3 ms 100 A
Operating and Storage Temperature Range -55°C to $+150^\circ \text{C}$

3.2

SCHEMATIC



MECHANICAL OUTLINE



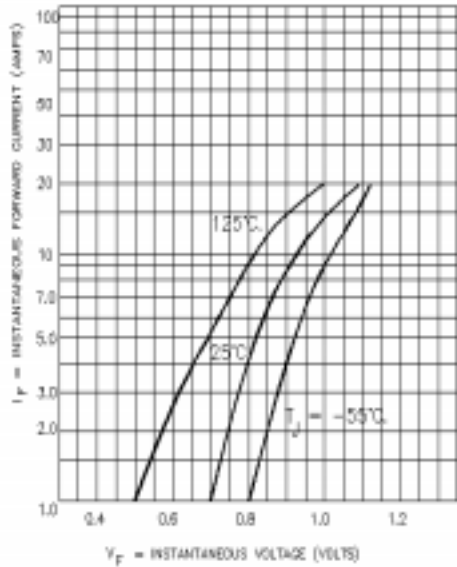
OM5221SA/RA/DA - OM5226SA/RA/DA

ELECTRICAL CHARACTERISTICS (Per Diode)

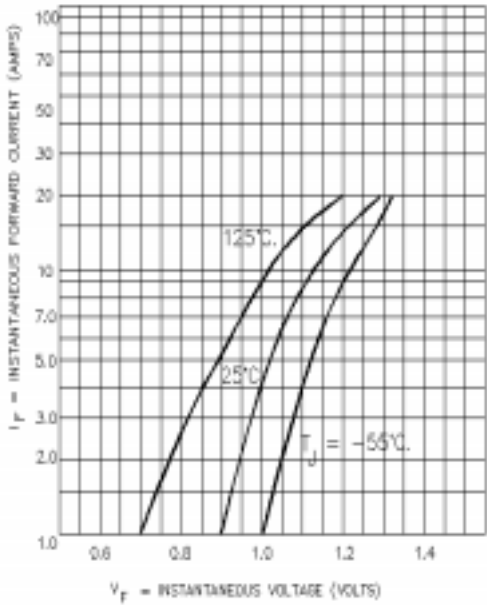
Type	PIV	Maximum Forward Voltage (Volts) @ ⁽¹⁾		Maximum Reverse Current @ PIV		Maximum Reverse Recovery Time ⁽²⁾	Maximum Thermal Resist. Rq _{JC}
		T _j = 25° C	T _j = 100° C	T _j = 25° C	T _j = 100° C		
OM5221XX	50	1.05V @ 12A	0.98V @ 12A	20 µA	1.0 mA	35 nsec	2.0
OM5222XX	100						
OM5223XX	150						
OM5224XX	200	1.35V @ 12A	1.15V @ 12A	20 µA	1.0 mA	50 nsec	1.8
OM5225XX	400						
OM5226XX	600						

(1) Pulse Test: Pulse Width = 300µs, Duty Cycle 2.0%. (2) Measured in Circuit: I_F = 0.5 A, I_R = 1.0 A, I_{REC} = 0.25 A

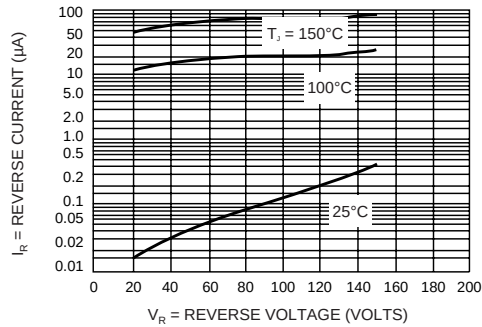
50 V TO 200 V
TYPICAL FORWARD VOLTAGE
OM5221, 5222, 5223, 5224



400 V
TYPICAL FORWARD VOLTAGE
OM5225



TYPICAL REVERSE CURRENT
OM5221, 5222, 5223, 5224



TYPICAL REVERSE CURRENT
OM5225

