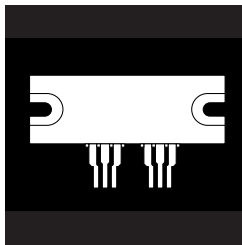


OM5400SP1 OM5402SP1 OM5404SP1
OM5401SP1 OM5403SP1 OM5405SP1

DUAL ULTRA FAST CENTER-TAP RECTIFIERS IN LOW PROFILE PLASTIC POWER PACKAGE



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

FEATURES

- Very Low Forward Voltage
- Very Fast Switching Speed
- Isolated Low Profile Package
- High Surge
- Small Size
- Dual Center-Taps

DESCRIPTION

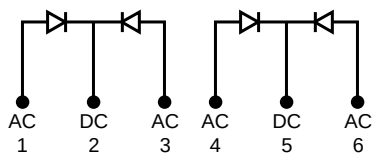
This series of ultra fast, dual center-tap rectifiers, is specifically designed for use at power switching frequencies in excess of 100 kHz. The series combines four high efficiency devices into one package, simplifying installation, reducing heat sink hardware, and the need to obtain matched components. These devices are ideally suited for industrial applications where small size and high performance is required.

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

Peak Inverse Voltage per Rectifier 50 to 600 V
Maximum Average D.C. Output Current @ $T_C = 100^\circ\text{C}$ per Center-Tap 25 A
Non-Repetitive Sinusoidal Surge Current 8.3 ms 100 A
Thermal Resistance, Junction-to-Case 1.5°C/W
Operating and Storage Temperature Range -55°C to $+125^\circ\text{C}$

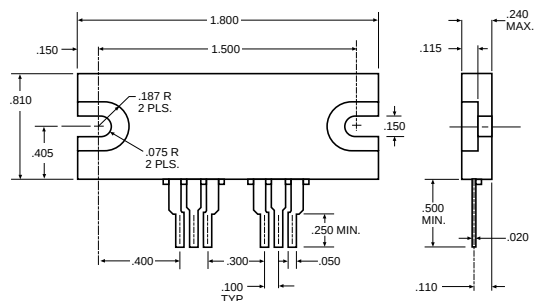
3.2

SCHEMATIC



Contact factory for common anode,
common cathode is standard.

MECHANICAL OUTLINE



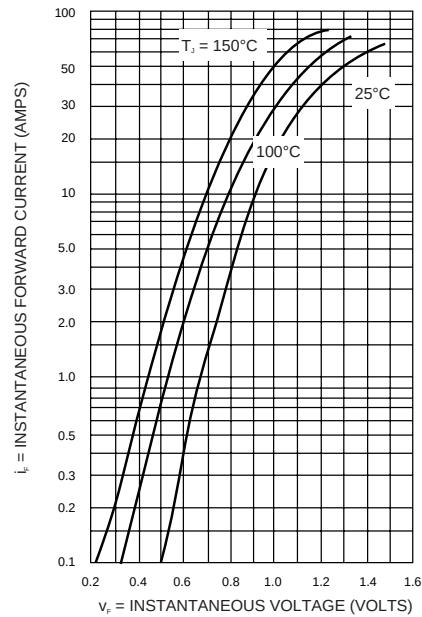
OM5400SP1 - OM5405SP1

ELECTRICAL CHARACTERISTICS (Per Leg)

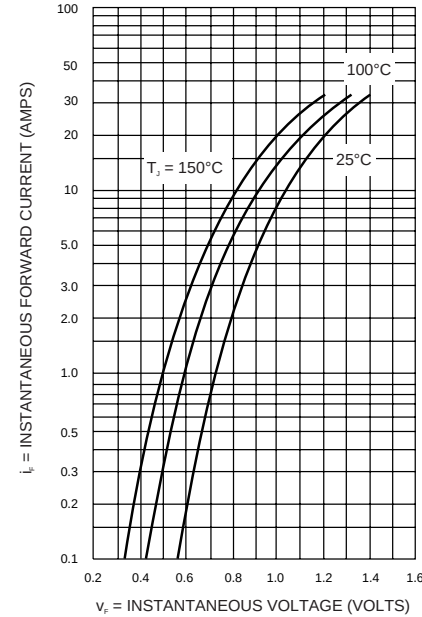
Type	PIV	Maximum Forward Voltage ⁽¹⁾ (Volts) @		Maximum Reverse Current @ PIV		Maximum Reverse Recovery Time*
		T _j = 25° C	T _j = 100° C	T _j = 25° C	T _j = 100° C	
OM5400SP1	50	1.00 V @ 12 A	0.92 V @ 12 A	15 µA	550 µA	35 nsec
OM5401SP1	100					
OM5402SP1	150					
OM5403SP1	200	1.45 V @ 12 A	1.25 V @ 12 A	30 µA	1.1 mA	50 nsec
OM5404SP1	400					
OM5405SP1	600					

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

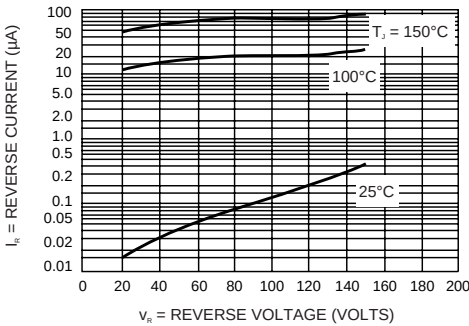
50 V TO 150 V
TYPICAL FORWARD VOLTAGE



200 V TO 600 V
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT



TYPICAL REVERSE CURRENT

