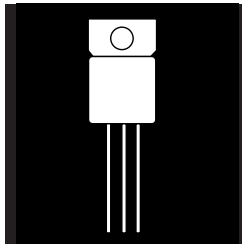


OM5236ST OM5238ST OM5240ST
OM5237ST OM5239ST OM5241ST

SINGLE ISOLATED RECTIFIER IN HERMETIC TO-257AA PACKAGE



**10 Amp, High Efficiency, 50 To 600 Volts,
35 To 50 nsec**

FEATURES

- Isolated Hermetic Package
- High Current / Small Size
- Ultra-Fast Recovery
- Low Forward Voltage Drop
- JEDEC TO-257AA Package
- Available Screened To MIL-S-19500, TX, TXV And S Levels

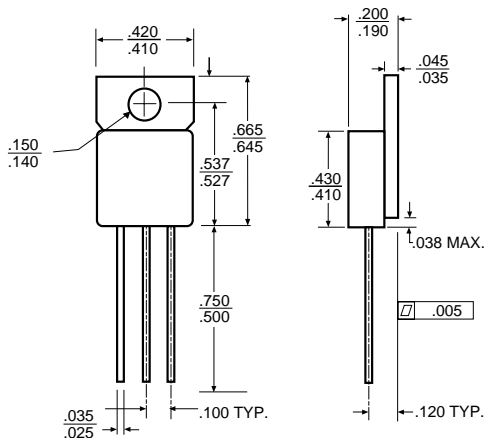
DESCRIPTION

These high speed power rectifiers are ideally suited in demanding applications where small size, high current and high reliability are required.

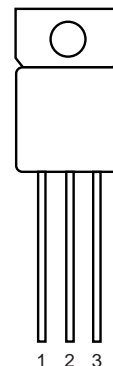
ABSOLUTE MAXIMUM RATINGS @ 25°C

Peak Inverse Voltage	50 to 600V
Maximum Average D.C. Output Current	10 A
Non-Repetitive Sinusoidal Surge Current 8.3 ms	100 A
Operating and Storage Temperature Range	- 55° C to + 150° C
Thermal Resistance	Junction-to-Case 3.5° C/W
	Junction-to-Ambient 60° C/W

MECHANICAL OUTLINE



PIN CONNECTION



Pin 1: Cathode
Pin 2: N/A
Pin 3: Anode

3.2

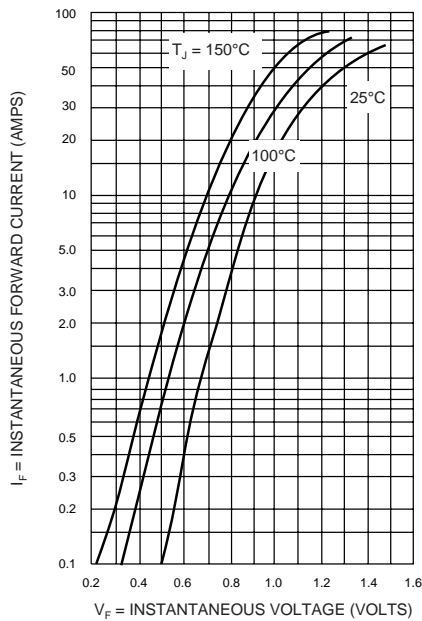
OM5236ST - OM5241ST

ELECTRICAL CHARACTERISTICS @ 25° C

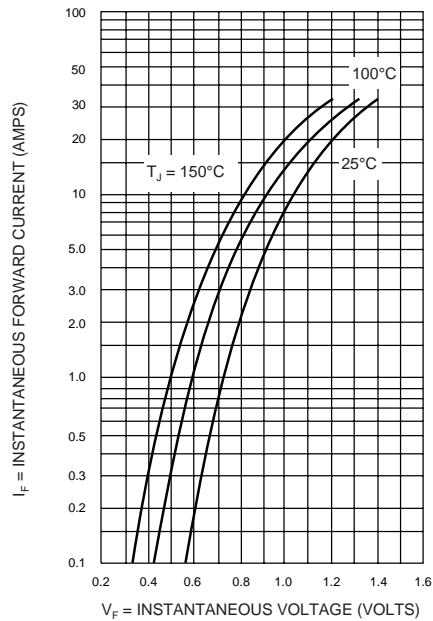
Type	PIV	Maximum Forward Voltage (Volts) @ (1)	Maximum Reverse Current @ PIV		Maximum Reverse Recovery Time (2)
		T _j = 25° C	T _j = 25° C	T _j = 100° C	
OM5236ST	50	1.0 V @ 10 A	20 µA	1.0 mA	35 nsec
OM5237ST	100				
OM5238ST	150				
OM5239ST	200				
OM5240ST	400	1.2 V @ 10 A	20 µA	2.0 mA	50 nsec
OM5241ST	600	1.2 V @ 10 A	20 µA	2.0 mA	50 nsec

(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.

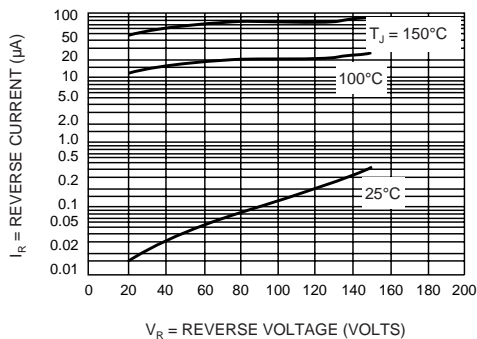
**50 V TO 200 V
TYPICAL FORWARD VOLTAGE
OM5236, 5237, 5238, 5239**



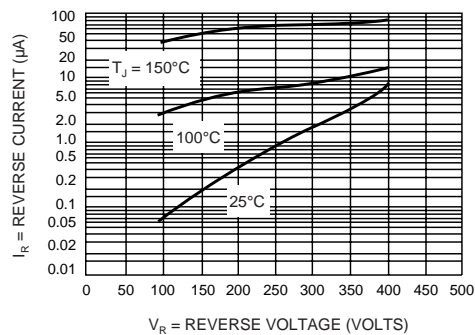
**400 V
TYPICAL FORWARD VOLTAGE
OM5240**



**TYPICAL REVERSE CURRENT
OM5236, 5237, 5238, 5239**



**TYPICAL REVERSE CURRENT
OM5240, 5241**



3.2