ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	VT760-M3/4W
Manufacturer:	Vishay General Semiconductor - Diodes Division
Package:	TO-220-2
Availability:	Please confirm with sales

Product Page:

https://antrexco.com/product/details/vishay-general-semiconductor-diodes-division vt760-m3-4w.html

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Contact Information

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Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

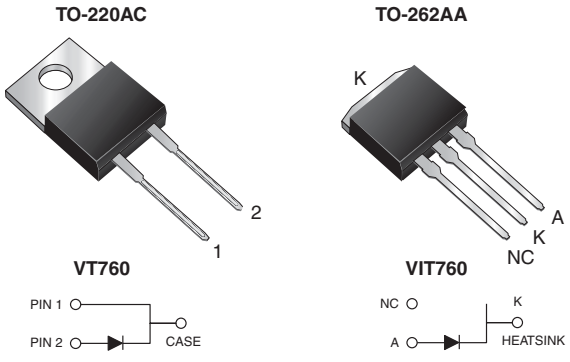
This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Trench MOS Barrier Schottky Rectifier

Ultra Low V_F = 0.50 V at I_F = 5 A

TMBS®



FEATURES

- Trench MOS Schottky technology
- Low forward voltage drop, low power losses
- High efficiency operation
- Solder bath temperature 275 °C max. 10 s, per JESD 22-B106
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

RoHS COMPLIANT
HALOGEN FREE

TYPICAL APPLICATIONS

For use in high frequency DC/DC converters, switching power supplies, freewheeling diodes, OR-ing diode, and reverse battery protection.

PRIMARY CHARACTERISTICS	
$I_{F(AV)}$	7.5 A
V_{RRM}	60 V
I_{FSM}	100 A
V_F at I_F = 7.5 A	0.60 V
T_J max.	150 °C
Package	TO-220AC, TO-262AA
Diode variation	Single

MECHANICAL DATA

Case: TO-220AC and TO-262AA
Molding compound meets UL 94 V-0 flammability rating Base P/N-M3 - halogen-free, RoHS-compliant, and commercial grade

Terminals: matte tin plated leads, solderable per J-STD-002 and JESD 22-B102
M3 suffix meets JESD 201 class 1A whisker test

Polarity: as marked

Mounting Torque: 10 in-lbs maximum

MAXIMUM RATINGS (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	VT760	VIT760	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	60		V
Maximum average forward rectified current (fig. 1)	$I_{F(AV)}$	7.5		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	100		A
Voltage rate of change (rated V_R)	dV/dt	10 000		V/µs
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150		°C

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ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)						
PARAMETER	**TEST CONDITIONS**		**SYMBOL**	**TYP.**	**MAX.**	**UNIT**
Instantaneous forward voltage	I_F = 5 A	T_A = 25 °C	V_F (1)	0.58	-	V
	I_F = 7.5 A			0.67	0.80	
	I_F = 5 A	T_A = 125 °C		0.50	-	
	I_F = 7.5 A			0.60	0.72	
Reverse current	V_R = 60 V	T_A = 25 °C	I_R (2)	-	700	µA
		T_A = 125 °C		6.6	25	mA

Notes

(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)				
PARAMETER	**SYMBOL**	**VT760**	**VIT760**	**UNIT**
Typical thermal resistance	$R_{\theta JC}$	3.5		°C/W

ORDERING INFORMATION (Example)					
PACKAGE	**PREFERRED P/N**	**UNIT WEIGHT (g)**	**PACKAGE CODE**	**BASE QUANTITY**	**DELIVERY MODE**
TO-220AC	VT760-M3/4W	1.87	4W	50/tube	Tube
TO-262AA	VIT760-M3/4W	1.45	4W	50/tube	Tube

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RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

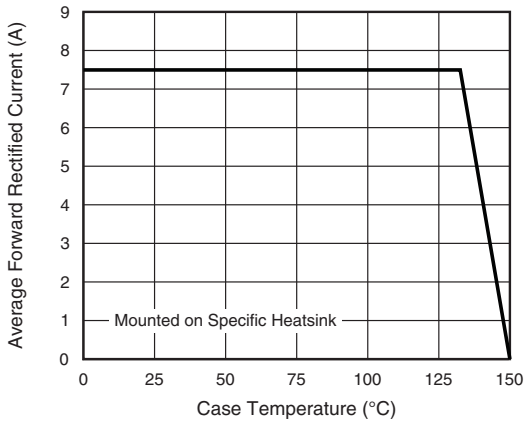

Fig. 1 - Maximum Forward Current Derating Curve

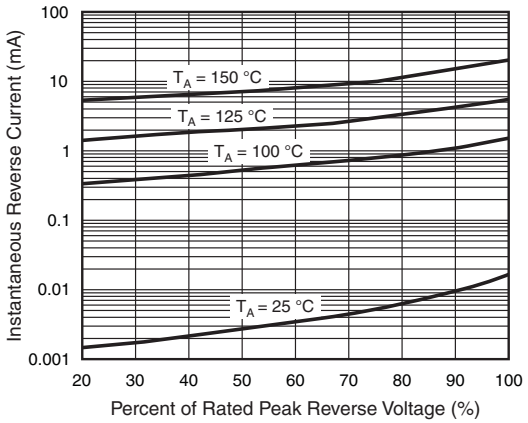

Fig. 4 - Typical Reverse Characteristics

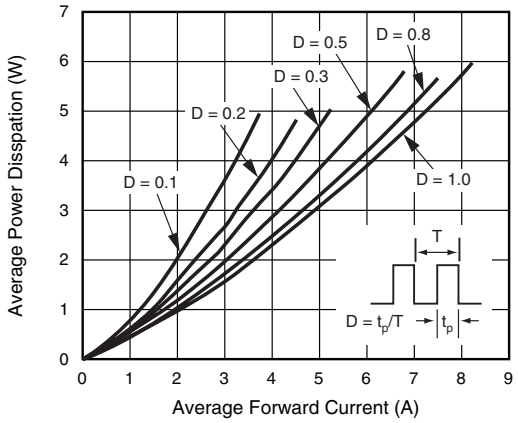

Fig. 2 - Forward Power Dissipation Characteristics

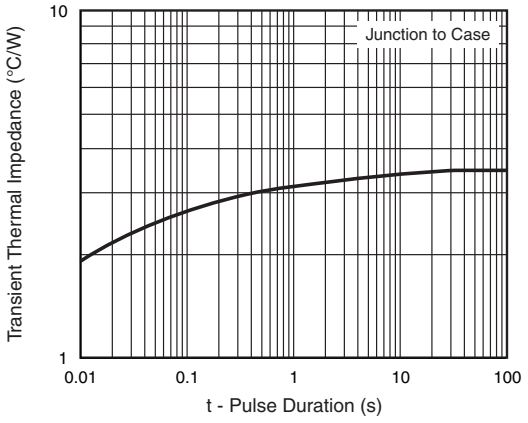

Fig. 5 - Typical Transient Thermal Impedance

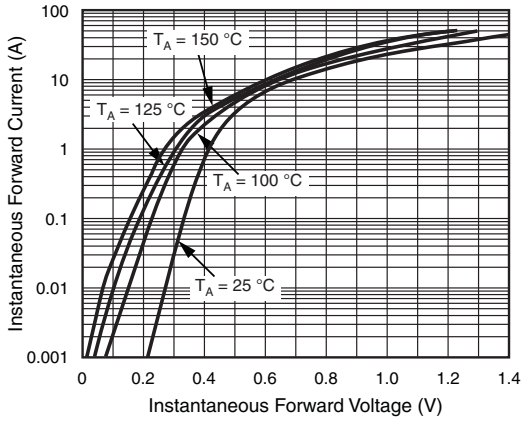

Fig. 3 - Typical Instantaneous Forward Characteristics

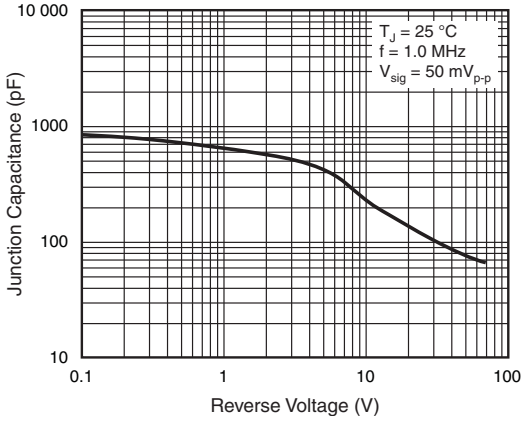

Fig. 6 - Typical Junction Capacitance

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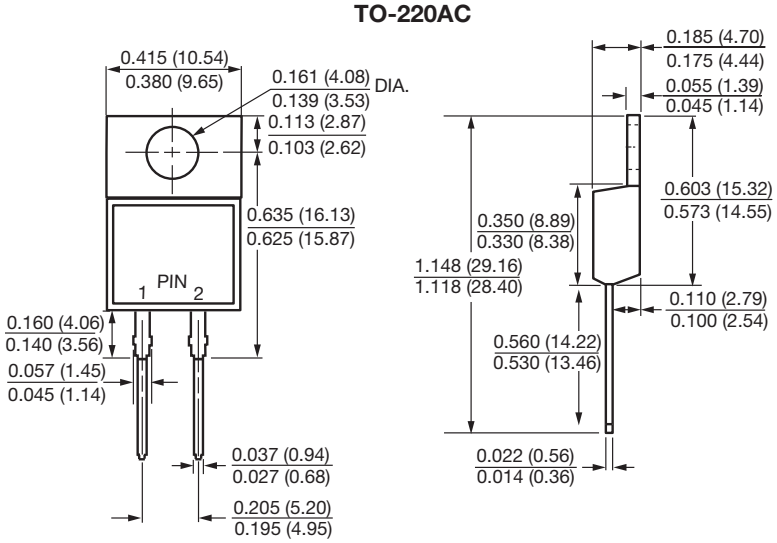
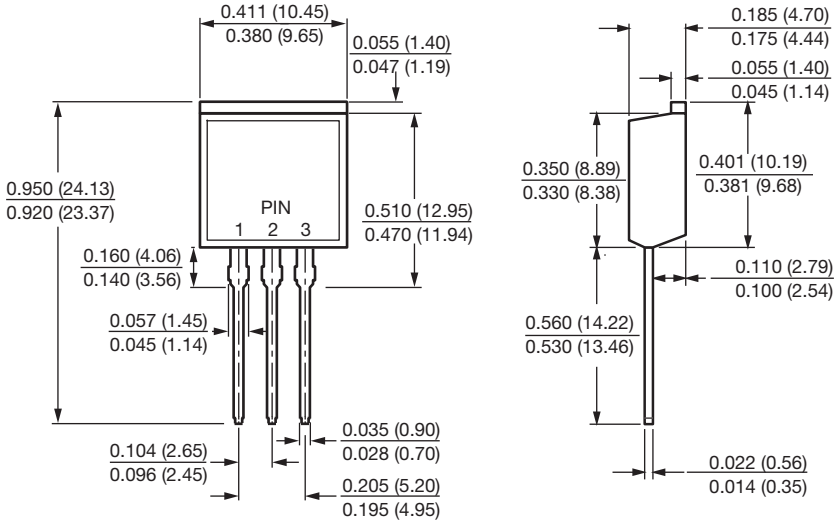
PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

TO-220AC



TO-262AA



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