

Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)							
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT	
Instantaneous femulard valtage nor diede	1 2 4	T _A = 25 °C	V _F ⁽¹⁾	0.49	0.57	V	
Instantaneous forward voltage per diode	I _F = 3 A	T _A = 125 °C	VF (··/	0.41	0.50	V	
Reverse current per diode	V _R = 60 V	T _A = 25 °C	I _R ⁽²⁾	-	2200	μA	
		T _A = 25 °C		8	26	mA	

Notes

 $^{(1)}$ Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 20 ms

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)					
PARAMETER		SYMBOL	V6W60C	UNIT	
Typical thermal resistance	per diode	$R_{ heta JC}$	3.6	°C/W	
	per device		1.8		
	per device	R _{θJA} ^{(1) (2)}	65		

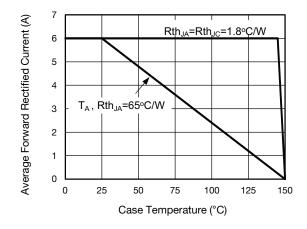
Notes

(1) The heat generated must be less than the thermal conductivity from junction-to-ambient: $dP_D/dT_J < 1/R_{\theta,JA}$

⁽²⁾ Free air, without heatsink

ORDERING INFORMATION (Example)					
PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE	
V6W60C-M3/I	0.83	I	2500/reel	13" diameter plastic tape and reel	

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





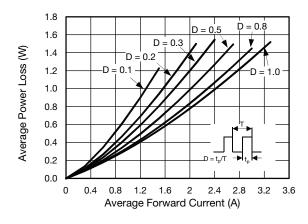


Fig. 2 - Forward Power Loss Characteristics Per Diode



www.vishay.com

Vishay General Semiconductor

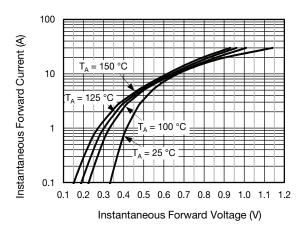


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

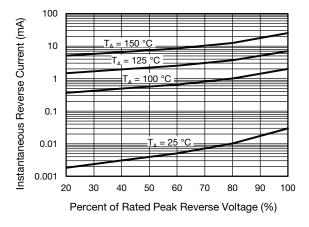


Fig. 4 - Typical Reverse Characteristics Per Diode

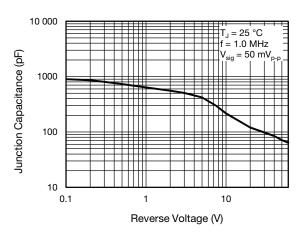


Fig. 5 - Typical Junction Capacitance Per Diode

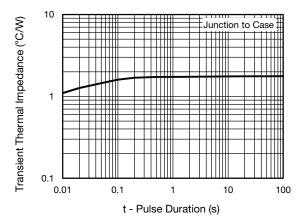
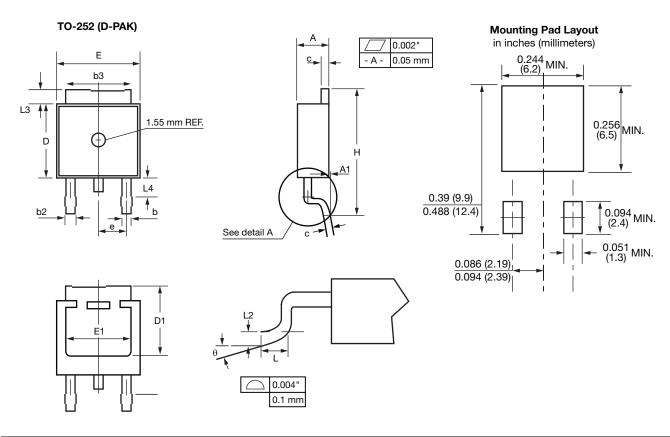


Fig. 6 - Typical Transient Thermal Impedance Per Device



Vishay General Semiconductor

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



SYMBOL	INC	CHES	MILLIMETERS			
	MIN.	MAX.	MIN.	MAX.		
Α	0.086	0.094	2.19	2.38		
A1	-	0.005	-	0.13		
b	0.025	0.035	0.64	0.89		
b2	0.033	0.045	0.84	1.14		
b3	0.205	0.215	5.21	5.46		
С	0.018	0.024	0.46	0.61		
D	0.235	0.250	5.97	6.22		
D1	0.205	-	5.21	-		
Е	0.250	0.265	6.35	6.73		
E1	0.190	-	4.83	-		
е	0.09	0.090 BSC.		2.29 BSC.		
Н	0.380	0.410	9.65	10.41		
L	0.055	0.070	1.40	1.78		
L2	0.02	0.020 BSC.		0.51 BSC.		
L3	0.035	0.050	0.89	1.27		
L4	0.025	0.039	0.64	1.01		
θ	0°	8°	0°	8°		

Note

• Conforms to JEDEC TO-252 variation AA except dimension "D"

Legal Disclaimer Notice



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

© 2017 VISHAY INTERTECHNOLOGY, INC. ALL RIGHTS RESERVED