

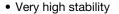
Vishay Semiconductors

Small Signal Zener Diodes

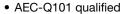


PRIMARY CHARACTERISTICS					
PARAMETER	VALUE	UNIT			
V _Z range nom.	1.0	V			
Test current I _{ZT}	5	mA			
V _Z specification	Pulse current				
Int. construction	Single				

FEATURES







 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



(e2)

ROHS

APPLICATIONS

Voltage stabilization

ORDERING INFORMATION					
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY		
TZMC1V0	TZMC1V0-GS18	10 000 (8 mm tape on 13" reel)	10 000/box		
TZMC1V0	TZMC1V0-GS08	2500 (8 mm tape on 7" reel)	12 500/box		

PACKAGE					
PACKAGE NAME WEIGHT		MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS	
MiniMELF SOD-80	31 mg	-	MSL level 1 (according J-STD-020)	260 °C/10 s at terminals	

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Power dissipation	$R_{thJA} \le 300 \text{ K/W}$	P _{tot}	500	mW	
Zener current		I _Z	P _{tot} /V _Z	mA	
Junction temperature		T _J	175	°C	
Storage temperature range		T _{stg}	-65 to +175	°C	
Thermal resistance junction to ambient air	On PC board 50 mm x 50 mm x 1.6 mm	R _{thJA}	500	K/W	

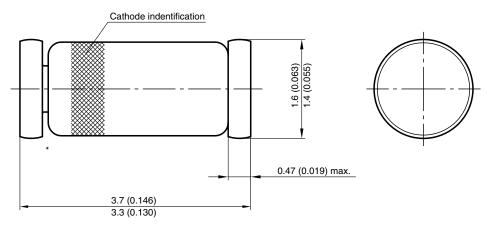
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)								
	ZENER VOLTAGE RANGE		TEST CURRENT		DYNAMIC RESISTANCE		TEMPERATURE COEFFICIENT OF ZENER VOLTAGE	
PART NUMBER	V _Z at I _{ZT1}		I _{ZT1}	I _{ZT2}	Z _Z at I _{ZT1}	Z _{ZK} at I _{ZT2}	TK	vz
	V		mA		Ω		%/ K	
	MIN.	MAX.			TYP.	TYP.	MIN.	MAX.
TZMC1V0 (1)	0.7	0.8	5	1	< 8	< 50	-0.26	-0.23

Note

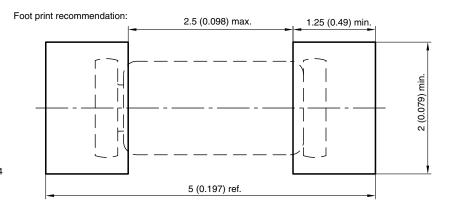
¹⁾ The TZMC1V0 is a silicon diode operated in forward direction. Hence the index of all parameters should be "F" instead of "Z". Connect the cathode electrode to negative pole.

Vishay Semiconductors

PACKAGE DIMENSIONS in millimeters (inches): MiniMELF SOD-80



* The gap between plug and glass can be either on cathode or anode side



Document no.:6.560-5005.01-4 Rev. 8 - Date: 07.June.2006 96 12070



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.

单击下面可查看定价,库存,交付和生命周期等信息

>>Vishay(威世)