

Small Signal Zener Diodes



FEATURES

- Very high stability
- Low noise
- AEC-Q101 qualified
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

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	

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} ≤ 300 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	

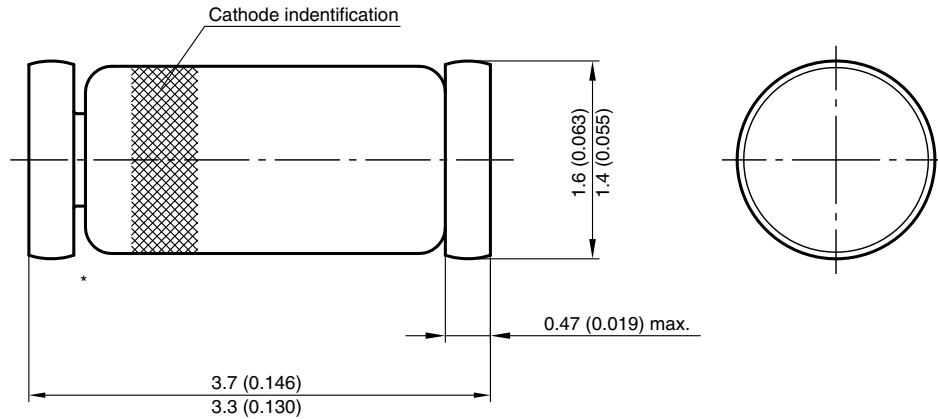
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)								
PART NUMBER	ZENER VOLTAGE RANGE		TEST CURRENT		DYNAMIC RESISTANCE		TEMPERATURE COEFFICIENT OF ZENER VOLTAGE	
	V _Z at I _{ZT1}		I _{ZT1}	I _{ZT2}	Z _Z at I _{ZT1}	Z _{ZK} at I _{ZT2}	TK _{VZ}	
	V		mA		Ω		% / K	
	MIN.	MAX.			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.

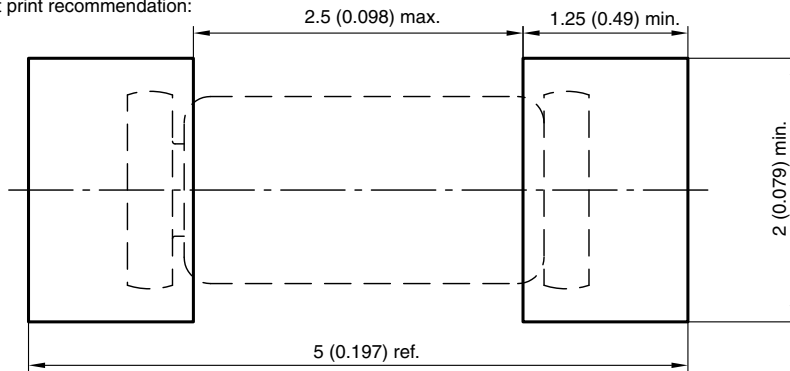


PACKAGE DIMENSIONS in millimeters (inches): **MiniMELF SOD-80**



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

Foot print recommendation:



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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