

# **MMSZ4688**

**5% TOLERANCE** 

## **General Description:**

Half watt, General purpose, Medium Current Surface Mount Zener in the SOD-123 package. The SOD-123 package has the same footprint as the glass mini-melf (LL-34) package & provides a convenient alternative to the Leadless package.

#### **Features:**

- Compact surface mount with same footprint as mini-melf
- 500 mW rating on FR-4 or FR-5 board.
- Class 3 ESD rating (>16 kV) per Human Body Model

## **Ordering:**

• 7 inch reel (178 mm); 8 mm Tape; 3,000 units per reel.

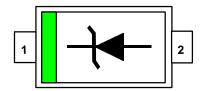
## Absolute Maximum Ratings (note 1) TA = 25°C unless otherwise noted

Parameter	Value	Units		
T <sub>STG</sub> - Storage Temperature	-55 to +150	οС		
T <sub>J</sub> - Maximum Junction Temperature	-55 to +150	οС		
P <sub>D</sub> - Total Power Dissipation at 25 <sup>o</sup> C	500	mW		
Derate above 25 <sup>o</sup> C	6.7	mW/ <sup>O</sup> C		
R <sub>ØJA</sub> - Thermal Resistance Junction to Ambient	340	°C/W		
R <sub>ØJL</sub> - Thermal Resistance Junction to Lead	150	°C/W		
	990	mV		
Lead Solder Temperature (Max 10 second duration)	260	°С		
Nominal Zener Voltage (V <sub>Z</sub> ) at 50 uA	4.7	V		
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Note 1: These ratings are limiting values above which the serviceability of any semiconductor device may be impaired

Note 2: Voltage change is equal to the difference between  $V_Z$  at 100 uA and  $V_Z$  at 10 uA.

Top Mark: **CT**1: Cathode
2: Anode



## **Electrical Characteristics**

TA = 25°C unless otherwise noted

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
V <sub>z</sub>	Zener Voltage	4.47	4.94	V	$I_{ZT} = 50.0 \text{ uA D.C}$
I <sub>R</sub>	Reverse Leakage		10	uA	$V_R = 3.0 V$
$V_{F}$	Forward Voltage		900	mV	I <sub>F</sub> = 10 mA
$\Delta V_{Z}$	Delta Zener Voltage		990	mV	$I_F = 100 \text{ uA to } 10 \text{ uA}$

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