

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.

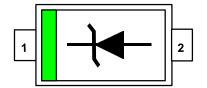
Absolute Maximum Ratings (note 1) TA = 25°C unless otherwise noted

Parameter	Value	Units		
T _{STG} - Storage Temperature	-55 to +150	οС		
T _J - Maximum Junction Temperature	-55 to +150	οС		
P _D - Total Power Dissipation at 25 ^o C	500	mW		
Derate above 25 ^o C	6.7	mW/ ^O C		
R _{ØJA} - Thermal Resistance Junction to Ambient	340	°C/W		
R _{ØJL} - Thermal Resistance Junction to Lead	150	°C/W		
	990	mV		
Lead Solder Temperature (Max 10 second duration)	260	°С		
Nominal Zener Voltage (V _Z) at 50 uA	4.7	V		
Norminal Zener Voltage (V _Z) at 50 uA 4.7 V				

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_Z	Zener Voltage	4.47	4.94	V	$I_{ZT} = 50.0 \text{ uA D.C}$
I _R	Reverse Leakage		10	uA	V _R = 3.0 V
V_{F}	Forward Voltage		900	mV	I _F = 10 mA
ΔV_{z}	Delta Zener Voltage		990	mV	$I_F = 100 \text{ uA to } 10 \text{ uA}$

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