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[Fairchild Semiconductor](#)

[MMSZ4688](#)

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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	°C
T _J - Maximum Junction Temperature	-55 to +150	°C
P _D - Total Power Dissipation at 25°C	500	mW
Derate above 25°C	6.7	mW/°C
R _{θJA} - Thermal Resistance Junction to Ambient	340	°C/W
R _{θJL} - Thermal Resistance Junction to Lead	150	°C/W
ΔV _Z - Maximum Voltage Change (Note 2)	990	mV
Lead Solder Temperature (Max 10 second duration)	260	°C
Nominal Zener Voltage (V _Z) at 50 uA	4.7	V

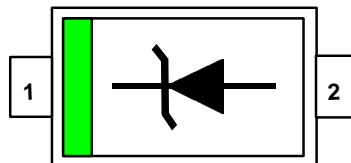
Note 1: These ratings are limiting values above which the serviceability of any semiconductor device may be impaired

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 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 uA to 10 uA

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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