

SEMICONDUCTOR

# **MMSZ4689**

## **General Description**

## **Features**

· Compact surface mount with same footprint as mini-melf

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.

#### • 500mW rating on FR-4 or FR-5 board. • Class 3 ESD rating (>16kV) per Human Body Model

## Ordering

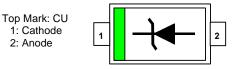
• 7 inch reel (178mm); 8mm Tape; 3,000 units per reel.

Symbol	Parameter	Value	Units
Гsтg	Storage Temperature	-55 ~ 150	°C
Г <sub>Ј</sub>	Maximum Junction Temperature	-55 ~ 150	°C
D	Total Power Dissipation at 25°C Derate above 25°C	500 6.7	mW mW/°C
۲ <sub>QJA</sub>	Thermal Resistance Junction to Ambient	340	°C/W
R <sub>QJA</sub> Thermal Resistance Junction to Ambient   R <sub>QJL</sub> Thermal Resistance Junction to Lead		hermal Resistance Junction to Lead 150	°C/W
۵۷ <sub>Z</sub>	Maximum Voltage Change (note 2)	970	mV
Lead Solder Te	mperature (Max 10 second duration)	260	°C
Nominal Zener Voltage ( $V_7$ ) at 50 $\mu$ A		5.1	V

# Absolute Maximum Ratings (note 1) T<sub>A</sub>=25°C unless otherwise noted

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 100µA and  $V_{Z}$  at 10µA.

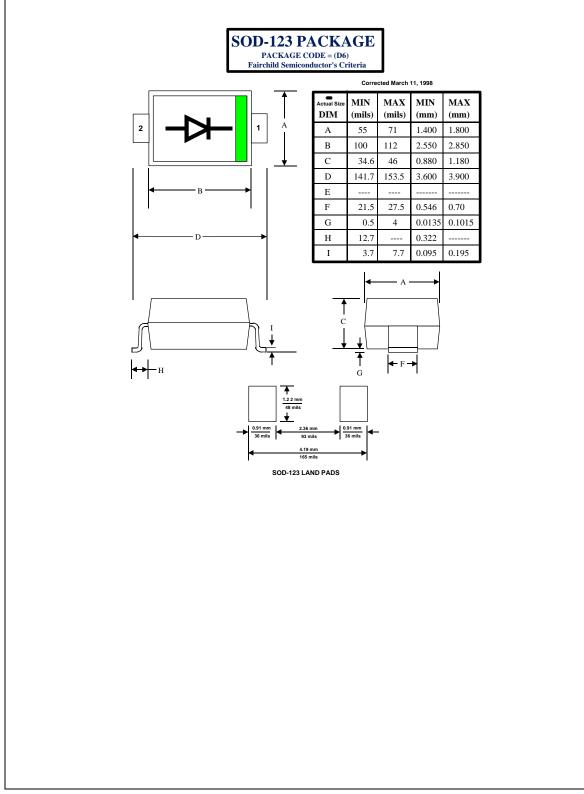


## Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Characteristics	Test Conditions	Min.	Max.	Units
VZ	Zener Voltage	$I_{ZT} = 50 \mu A_{D.C}$	4.85	5.36	V
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 3.0V		10	μΑ
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 10mA		900	mV
$\Delta V_Z$	Delta Zener Voltage (Note 2)	I <sub>ZT</sub> = 100μA to 10μA		970	mV

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MMSZ4689, Rev. A

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EnSigna™	I²C™	OCX™	RapidConfigure™	UHC™
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