

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

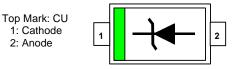
• 7 inch reel (178mm); 8mm Tape; 3,000 units per reel.

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

Absolute Maximum Ratings (note 1) T_A=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.

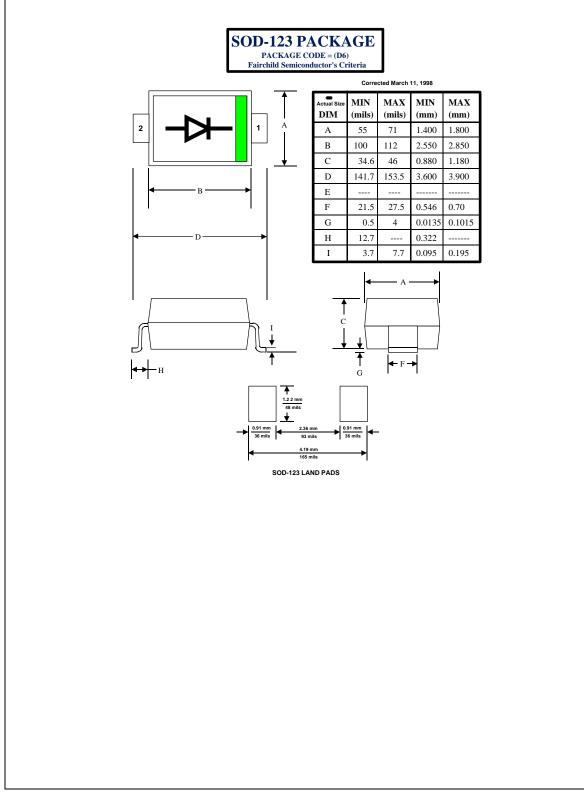


Electrical Characteristics TA=25°C unless otherwise noted

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

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MMSZ4689, Rev. A

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E²CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I²C™	OCX™	RapidConfigure™	UHC™
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PRODUCT STATUS DEFINITIONS

Definition of Terms

Product Status	Definition
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First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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