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SEMICONDUCTOR

MMSZ4702

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

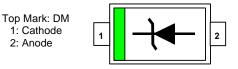
Ordering

• 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
R _{QJA}	Thermal Resistance Junction to Ambient	340	°C/W
PaJA Thermal Resistance Junction to Ambient PaJL Thermal Resistance Junction to Lead		150	°C/W
ΔV _Z	Maximum Voltage Change (Note 2)	150	mV
Lead Solder Temperature (Max 10 second duration)		260	°C
Nominal Zener Voltage (V_7) at 50µA		15.0	V

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

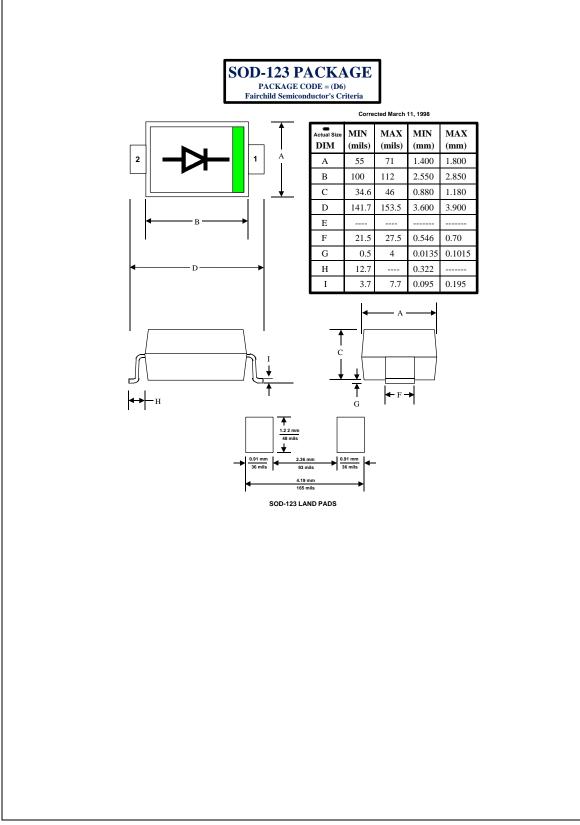
Note 2: Voltage change is equal to the difference between V_{Z} at 100µA and V_{Z} at 10µA.



Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Characteristics	Test Conditions	Min.	Max.	Units
VZ	Zener Voltage	$I_{ZT} = 50\mu A_{D.C}$	14.25	15.75	V
I _R	Reverse Leakage	V _R = 11.4V		50	nA
V _F	Forward Voltage	I _F = 10mA		900	mV
ΔV_Z	Delta Zener Voltage (Note 2)	$I_{ZT} = 100\mu A$ to $10\mu A$		150	mV

MMSZ4702



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