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Fairchild Semiconductor MMSZ4703

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MMSZ4703 Zener Diode

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.

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MMSZ4703 — Zener Diode

Features

- · Compact surface mount with same footprint as mini-melf
- 500mW rating on FR-4 or FR-5 board.
- Class 3 ESD rating (>16kV) per Human Body Model

Ordering

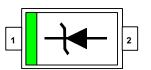
• 7 inch reel (178mm); 8mm Tape; 3,000 units per reel.

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

Symbol	Parameter	Value	Units
T _{STG}	Storage Temperature	-55 to +150	°C
TJ	Maximum Junction Temperature	mum Junction Temperature -55 to +150	
P _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
R _{QJL}	Thermal Resistance Junction to Lead	150	°C/W
ΔVZ	Maximum Voltage Change (Note 2)	160	mV
Lead Solder Temperature (Max 10 second duration)		260	°C
Nominal Zener Voltage (V _Z) at $50\mu A$		16.0	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 10µA and V_Z at 10µA.

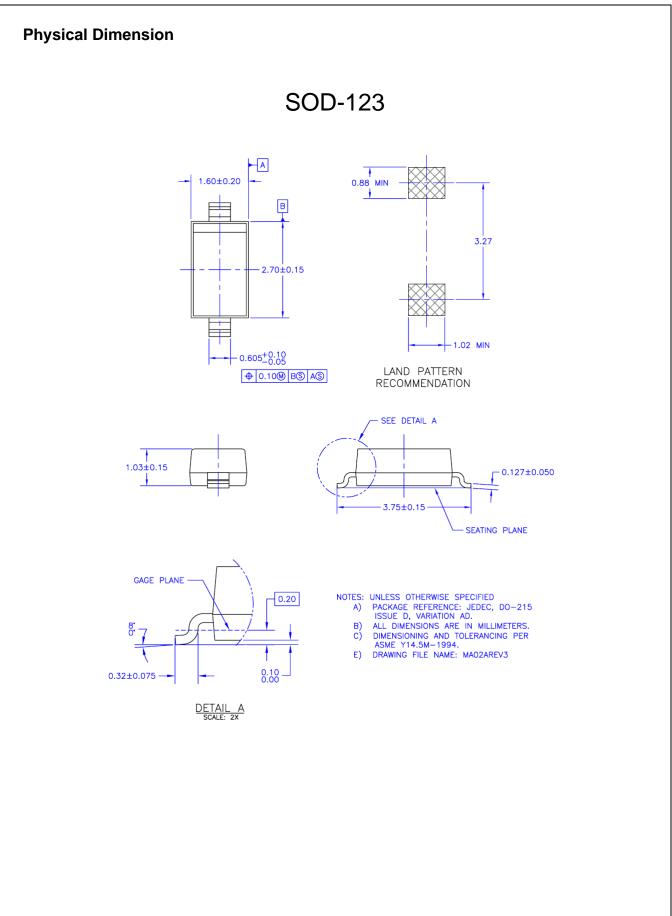
> Top Mark: DN 1: Cathode 2: Anode



Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Characteristics	Test Conditions	Min.	Max.	Units
VZ	Zener Voltage	I _{ZT} = 50μA _{D.C}	15.20	16.80	V
I _R	Reverse Leakage	V _R = 12.1V		50	nA
V _F	Forward Voltage	I _F = 10mA		900	mV
ΔV_Z	Delta Zener Voltage (Note 2)	$I_{ZT} = 100\mu A$ to $10\mu A$		160	mV





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Datasheet Identification	Product Status	Definition	
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.	
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairc Semiconductor reserves the right to make changes at any time without notice to improve design	
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make char at any time without notice to improve the design.	
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.	
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