SURFACE MOUNT ZENER VOLTAGE DIODE

MMSZ4697

SOD-123
PLASTIC PACKAGE

Marking

MMSZ4697 = DE

ABSOLUTE MAXIMUM RATINGS T_a=25ºC (unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Junction Temperature	T_j	- 55 to +150	^oC
Storage Temperature Range	T_{stg}	- 55 to +150	^oC
Power Dissipation at T_a=25ºC Derate Above 25ºC	P_D	500 6.7	mW mW/ºC
Thermal Resistance Junction to Ambient	$R_{th\ (j-a)}$	340	ºC/W
Thermal Resistance Junction to Lead	$R_{th\ (j-L)}$	150	ºC/W
Maximum Voltage Change (Note1)	ΔV_Z	100	mV
Lead Solder Temperature max 10sec duration	T_L	260	^oC
Nominal Zener Voltage (V_Z) at 50mA		10	V

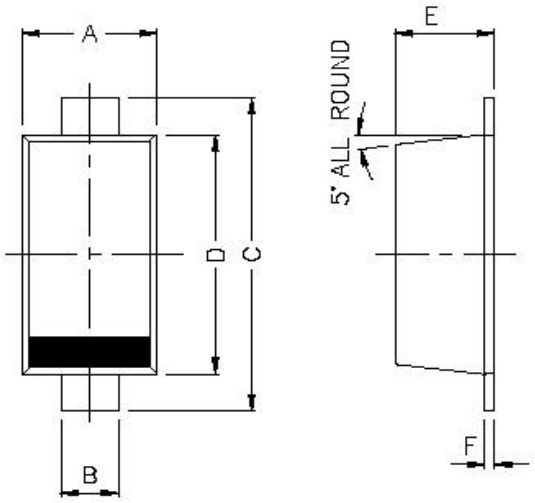
ELECTRICAL CHARACTERISTICS (T_a=25º C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Zener Voltage	V_Z	I_{ZT}=50µA D.C	9.50		10.50	V
Reverse Leakage	I_R	I_R=7.6V			1.0	µA
Forward Voltage	V_F	I_F=10mA			0.9	V
Delta Zener Voltage (Note1)	ΔV_Z	I_{ZT}=100µA to 10µA			0.1	V

Note1:- Voltage change is equal to the difference between V_Z at 100mA and V_Z at 10mA

MMSZ4697Rev260606E

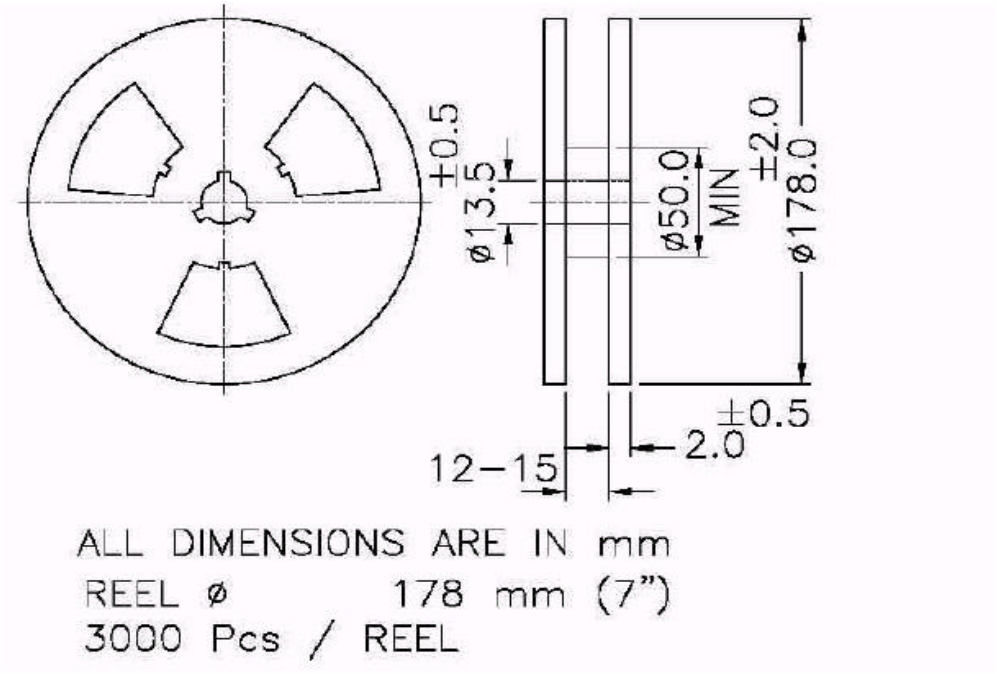
PACKAGE SOD-123 FL



DIM	MIN.	MAX.
A	1.55	1.65
B	0.5	0.6
C	3.7	3.9
D	2.6	2.7
E	1.05	1.15
F	0.127	0.135

All dimensions are in mm

CATHODE IS MARKED BY BAND



Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.

2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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Continental Device India Limited
C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119
email@cdil.com www.cdilsemi.com