

## Features

- High Surge Capability
- Ideally Suited for Automatic Assembly
- Standard  $V_Z$  Tolerance is +/- 5%
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t (Note2)("P" Suffix Designates Compliant. See Ordering Information)

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 110°C/W Junction to Ambient
- Thermal Resistance: 9°C/W Junction to Soldering Point

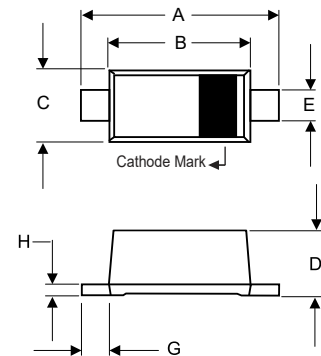
Parameter	Symbol	Rating	Conditions
Zener Current	$I_{ZM}$	Pd/Vz (mA)	
Power Dissipation	$P_{tot}$	1.0W	$T_A=25^\circ C$
Forward Voltage	$V_F$	1.2V	$I_F=200mA$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

# 1 Watt Zener Diode 180V - 200V Volts

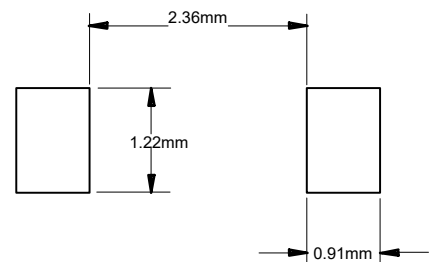
## SOD-123FL



### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.130	0.152	3.30	3.85	
B	0.100	0.122	2.55	3.10	
C	0.055	0.075	1.40	1.90	
D	0.035	0.053	0.90	1.35	
E	0.020	0.041	0.50	1.05	
G	0.010	----	0.25	----	
H	----	0.010	----	0.25	

### SUGGESTED SOLDER PAD LAYOUT



**Electrical Characteristics @ 25°C Unless Otherwise Specified**

MCC Part Number	Zener Voltage <sup>(3)</sup>			I <sub>ZT</sub> mA	Differential Resistance		Maximum Reverse Current <sup>(3)</sup> I <sub>R</sub> @ V <sub>R</sub>		Typical Temperature Coefficient @I <sub>ZTC</sub>		Marking Code
	V <sub>Z</sub> @ I <sub>ZT</sub>				r <sub>dif</sub> @ I <sub>Z</sub>		I <sub>R</sub>	V <sub>R</sub>	Min	Max	
	Min.(V)	Nom(V)	Max.(V)	Typ(Ω)	Max(Ω)	μA	V	%/ <sup>o</sup> C			
DFLZ180	168	180	191	5	180	400	1	130	0.09	0.13	ZG
DFLZ200	188	200	212	5	200	500	1	150	0.09	0.13	ZH

Note : 3. Short Duration Pulse Test Used to Minimize Self-heating Effect.

## Curve Characteristics

Fig. 1 - Power Derating Curve

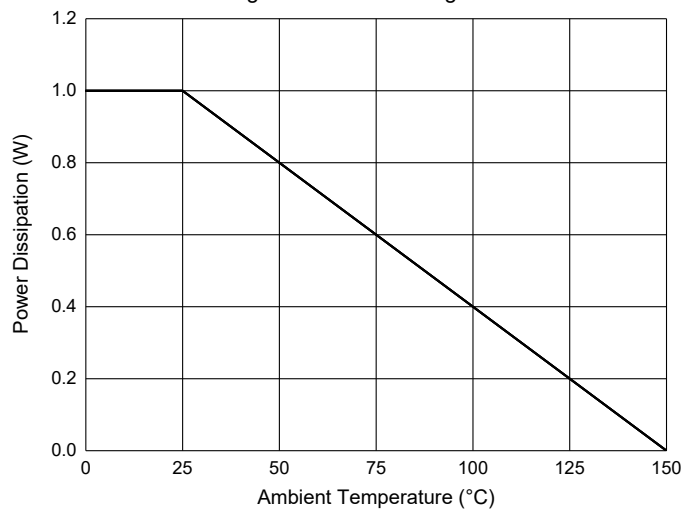
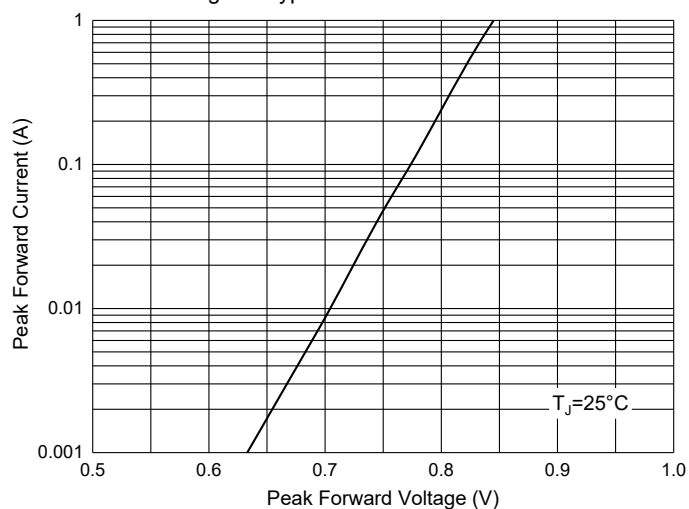


Fig. 2 - Typical Forward Characteristics



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:2.5Kpcs/Reel

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