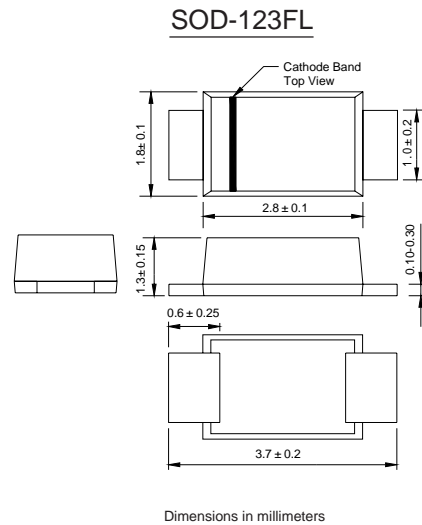


**Features**

- For surface mounted applications in order to optimize board space
- Low profile space
- Low Zener impedance
- High reliability
- For use in stabilizing and clipping circuits with high power rating.
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

**Mechanical Date**

- **Case:** Flat Lead SOD-123 Small Outline Plastic Package
- **Polarity:** Types the band by laser denotes the cathode
- **Terminals:** Solder plated, solderable per MIL-STD-750 Method 2026  
Weight: 0.0007 ounce, 0.02 grams



**Applications**

- For general purpose regulation and protection applications

**Major Ratings and Characteristics**

<b>P<sub>tot</sub></b>	<b>1.0 W</b>
<b>V<sub>Z</sub></b>	<b>110 V</b>
<b>I<sub>ZM</sub></b>	<b>8 mA</b>
<b>I<sub>R</sub></b>	<b>5 μA</b>
<b>T<sub>j</sub> max.</b>	<b>150 °C</b>

**Maximum Ratings & Thermal Characteristics**

(T<sub>A</sub> = 25 °C unless otherwise noted)

	Symbol	VALUE	UNIT
power dissipation	P <sub>tot</sub>	1	W
Thermal resistance from junction to ambient <sup>(1)</sup>	R <sub>θJA</sub>	230	°C/ W
Operating junction temperature range	T <sub>J</sub>	-65 to +150	°C
Storage temperature range	T <sub>STG</sub>	-65 to +150	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

Note1: Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas (≈35 μm thick)

**Electrical Characteristics**

T<sub>A</sub> =25°C unless otherwise noted.

TYPE	Zener Voltage				Zener Impedance			Leakage Current		I <sub>ZM</sub>
	V <sub>Z</sub> (Volts)			@I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>		I <sub>R</sub> @V <sub>R</sub>		
	Min	Nom	Max	mA	Ω	Ω	mA	uA	Volts	
1DZ110	104	110	116	5	300	3000	0.25	5	83.6	8

**Characteristic Curves** ( $T_A=25\text{ }^\circ\text{C}$  unless otherwise noted)

Fig. 1 - Maximum Continuous Power Dissipation

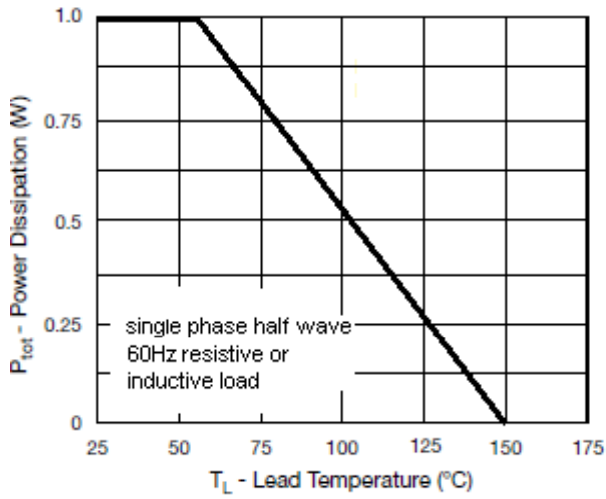


Fig. 2 - Typical Reverse Characteristics

