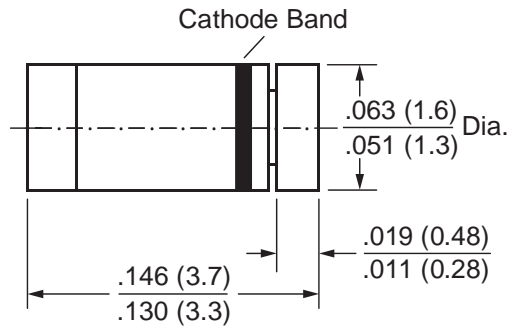


### MiniMELF (SOD-80C)



Dimensions in inches and (millimeters)

### Features

- For general purpose applications
- Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring.
- The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications.
- This diode is also available in the DO-35 case with type designation 1N5711 and 1N6263.

### Mechanical Data

**Case:** MiniMELF Glass Case (SOD-80C)

**Weight:** approx. 0.05g

**Cathode Band Color:** Green

**Packaging Codes/Options:**

D1/10K per 13" reel (8mm tape), 20K/box

D2/2.5K per 7" reel (8mm tape), 20K/box

### Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Peak Inverse Voltage	LL5711 LL6263	V <sub>RRM</sub> 70 60	V
Power Dissipation (Infinite Heatsink)	P <sub>tot</sub>	400 <sup>(1)</sup>	mW
Maximum Single Cycle Surge 10μs Square Wave	I <sub>FSM</sub>	2.0	A
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>s</sub>	-55 to +150	°C

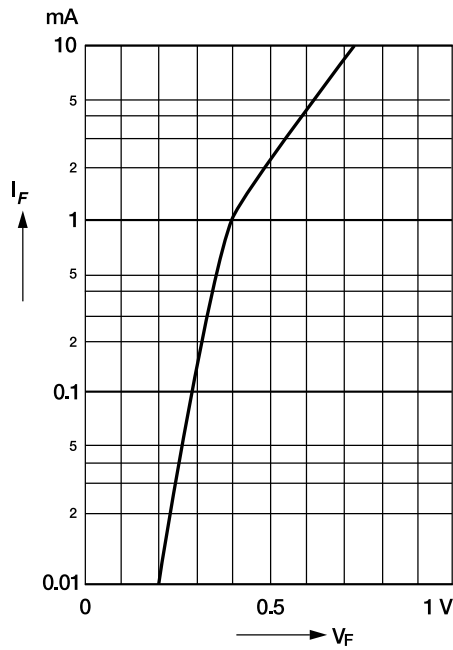
### Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	LL5711 LL6263	V <sub>(BR)R</sub>	I <sub>R</sub> = 10μA	70 60	— —	V
Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 50V	—	—	200	nA
Forward Voltage Drop	V <sub>F</sub>	I <sub>F</sub> = 1.0mA I <sub>F</sub> = 15mA	— —	— —	0.41 1.0	V
Junction Capacitance	C <sub>tot</sub>	V <sub>R</sub> = 0V, f = 1MHz	—	—	2.2	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 5mA, recover to 0.1I <sub>R</sub>	—	—	1	ns

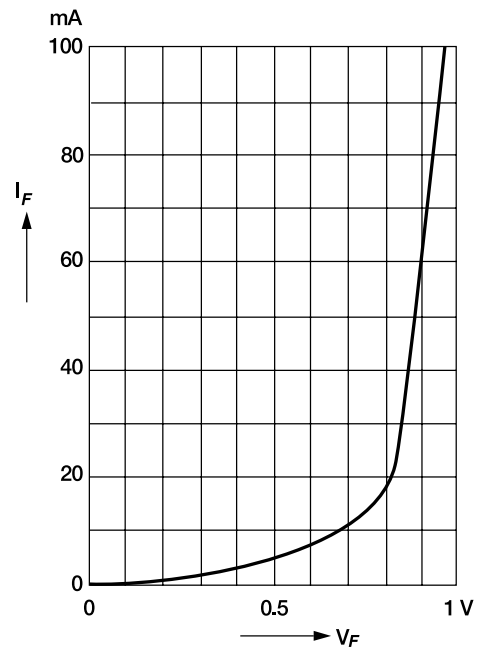
**Note:** (1) Valid provided that electrodes are kept at ambient temperature.

### Ratings and Characteristic Curves (T<sub>A</sub> = 25°C unless otherwise noted)

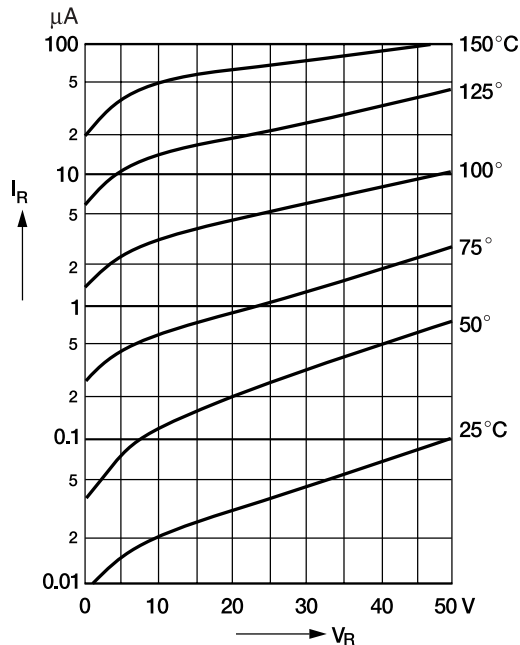
**Typical variation of fwd. current vs. fwd. voltage for primary conduction through the Schottky barrier**



**Typical forward conduction curve of combination Schottky barrier and PN junction guard ring**



**Typical variation of reverse current at various temperatures**



**Typical capacitance curve as a function of reverse voltage**

