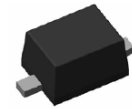


### Features

- Ideal for automated placement
- Superior Reverse Avalanche Capability
- +175°C Operation Junction Temperature
- Low power loss, high efficiency, High Reliability
- High temperature soldering:  
260°C/10 seconds at terminals
- Meets MSL level 1, per J-STD-020
- Component in accordance to RoHS 2011/65/EU



SOD-123FL



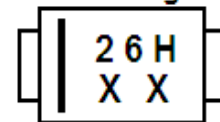
**RoHS**  
COMPLIANT

**HALOGEN**  
**FREE**  
Available

### Mechanical Date

- **Case:** SOD-123FL  
Molding compound meets  
UL 94 V-0 flammability rating
- **Terminals:** Solder plated, solderable per  
MIL-STD-750, Method 2026
- **Polarity:** Laser band denotes cathode end

### Marking



26=Product Type Marking Code  
H = High junction temperature  
XX = Date Code

### Maximum Ratings (T<sub>A</sub> = 25 °C unless otherwise specified)

Characteristic	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	60	V
Maximum RMS voltage	V <sub>RMS</sub>	42	V
Maximum DC blocking voltage	V <sub>DC</sub>	60	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	2	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50	A
Thermal resistance from junction to lead <sup>(1)</sup>	R <sub>θJL</sub>	25	°C/W
Thermal resistance from junction to ambient <sup>(1)</sup>	R <sub>θJA</sub>	80	°C/W
Operating junction temperature range	T <sub>J</sub>	-65 to +175	°C
Storage temperature range	T <sub>STG</sub>	-65 to +175	°C

Note 1: Mounted on P.C.B. with 0.036 x 0.06" (0.9 x 1.5mm) copper pad areas.

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

Items	Symbol	Test conditions	Min	Typ	Max	Unit	
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A <sup>(2)</sup> , T <sub>J</sub> =25°C	—	0.6	0.65	V	
		I <sub>F</sub> =2A <sup>(2)</sup> , T <sub>J</sub> =25°C	—	0.65	0.72		
Reverse current	I <sub>R</sub>	V <sub>R</sub> =V <sub>DC</sub>	T <sub>J</sub> =25°C	—	0.1	0.70	μA
			T <sub>J</sub> =125°C	—	60	—	

Note 2: Pulse test:300μs pulse width,1% duty cycle

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

Figure 1 DC Forward Current Derating Curve

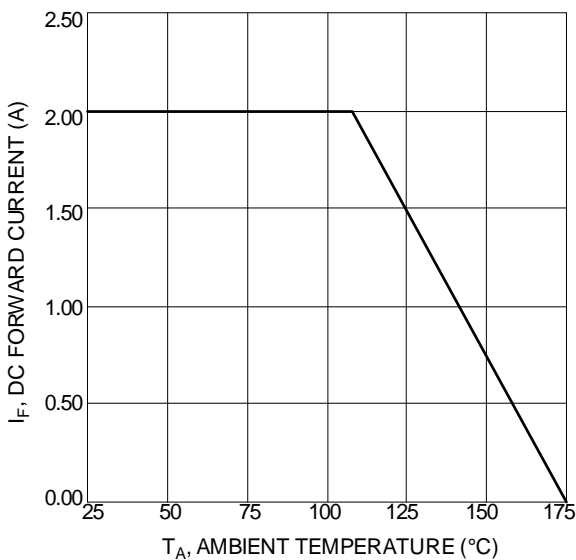


Figure 2 Forward Power Dissipation

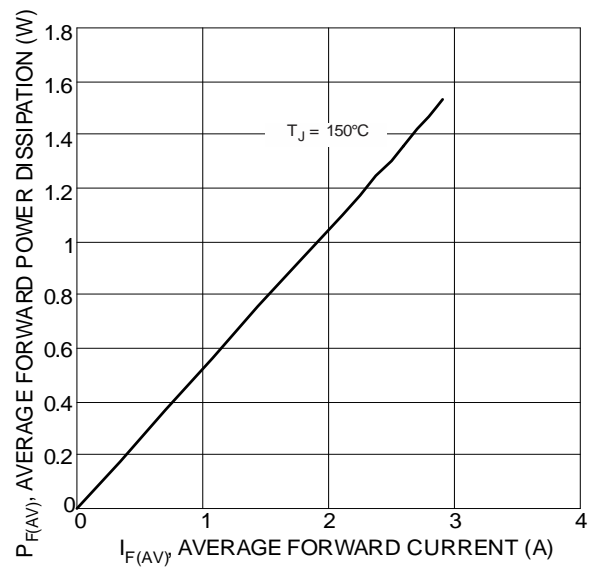


Figure 3 Typical Forward Characteristics

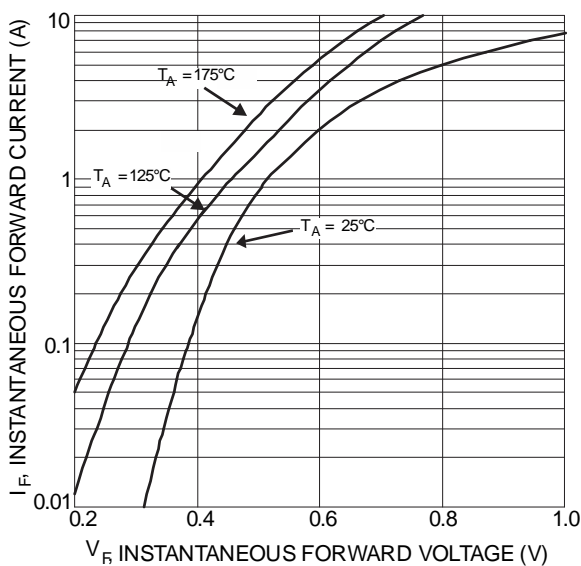
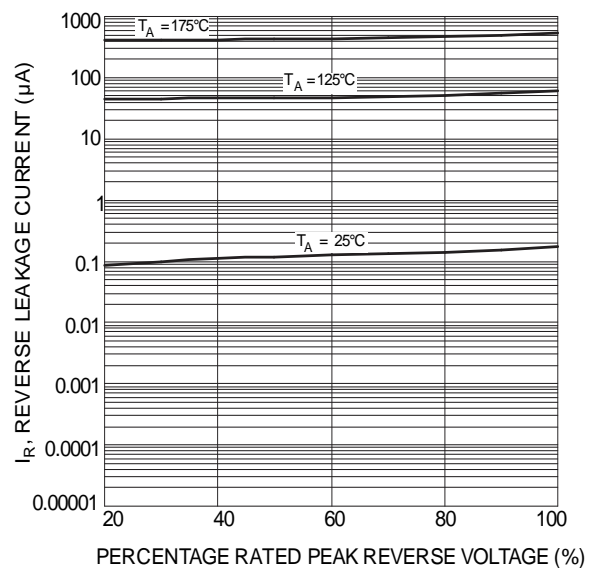
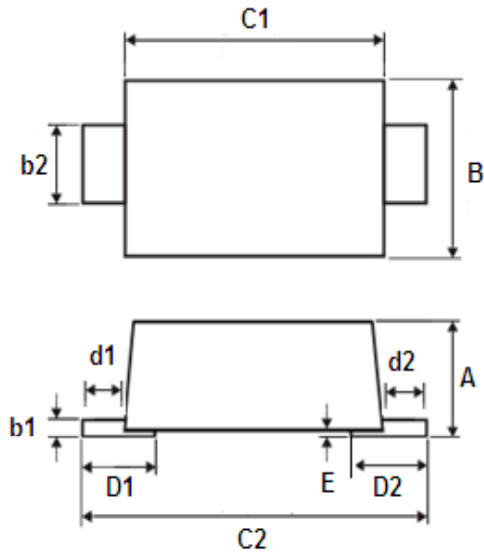


Figure 4 Typical Reverse Characteristics



## Package Outline



Ref.	Millimeters
A	1.15±0.05
B	1.9±0.05
b 1	0.15±0.05
b 2	0.75±0.05
C1	2.7±0.05
C2	3.7±0.1
D(D1、 D2)	0.75±0.3
d(d1、 d2)	0.5±0.1
E	0-0.1

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Rectifiers](#) category:*

*Click to view products by [Leiditech](#) manufacturer:*

Other Similar products are found below :

[D91A](#) [DA24F4100L](#) [DD89N1600K-A](#) [DD89N16K-K](#) [RL252-TP](#) [DLA11C-TR-E](#) [DSA17G](#) [1N4005-TR](#) [BAV199-TP](#) [UFS120Je3/TR13](#)  
[JANS1N6640US](#) [VS-80-1293](#) [DD89N16K](#) [DD89N16K-A](#) [481235F](#) [DSP10G-TR-E](#) [RRE02VS6SGTR](#) [067907F](#) [MS306](#) [ND104N08K](#)  
[SPA2003-B-D-A01](#) [VS-80-6193](#) [VS-66-9903](#) [VGF0136AB](#) [US2JFL-TP](#) [UFS105Je3/TR13](#) [A1N5404G-G](#) [ACGRA4007-HF](#) [ACGRB207-HF](#)  
[RF301B2STL](#) [RF501B2STL](#) [UES1306](#) [UES1302](#) [BAV199E6433HTMA1](#) [ACGRC307-HF](#) [ACEFC304-HF](#) [JANTXV1N5660A](#) [UES1106](#)  
[GS2K-LTP](#) [D126A45C](#) [D251N08B](#) [SCHJ22.5K](#) [SM100](#) [SCPA2](#) [SCH10000](#) [SDHD5K](#) [STTH20P035FP](#) [VS-8EWS12S-M3](#) [VS-](#)  
[12FL100S10](#) [ACGRA4001-HF](#)