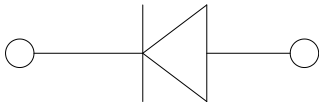
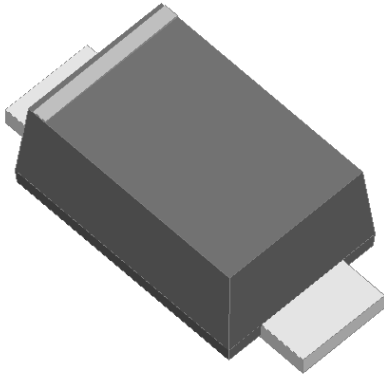


## SL24 THRU SL210



### Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

### Mechanical Date

- **Package:** SOD-123FL  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

### ■ Maximum Ratings (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SL24	SL26	SL210
Device marking code			SL24	SL26	SL210
Repetitive peak reverse voltage	VRRM	V	40	60	100
Average rectified output current @60Hz sine wave, Resistance load, T <sub>a</sub> (FIG.1)	I <sub>O</sub>	A	2.0		
Surge(non-repetitive)forward current @ 60Hz half-sine wave, 1 cycle, T <sub>j</sub> =25°C	I <sub>FSM</sub>	A	50		
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150		
Junction temperature	T <sub>j</sub>	°C	-55 ~+150		

### ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SL24	SL26	SL210
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =2.0A	0.47	0.55	0.72
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I <sub>RRM</sub>	mA	T <sub>a</sub> =25°C	0.5		
			T <sub>a</sub> =100°C	10		

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SL24	SL26	SL210
Thermal Resistance	R <sub>θ</sub> J-A	°C/W	70 <sup>(1)</sup>		
	R <sub>θ</sub> J-L		20 <sup>(1)</sup>		
	R <sub>θ</sub> J-C		30 <sup>(1)</sup>		

Note:  
 (1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm\*3mm copper pad areas.

## ■ Characteristics(Typical)

FIG1: I<sub>o</sub>-T<sub>L</sub> Curve

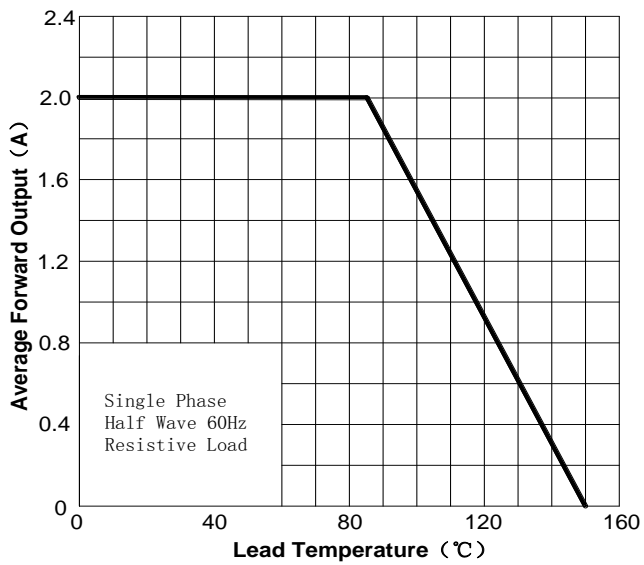


FIG2: Surge Forward Current Capability

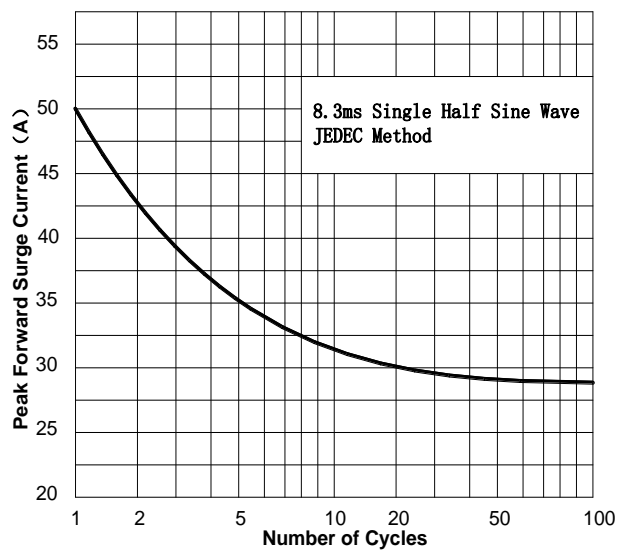


FIG3: Forward Voltage

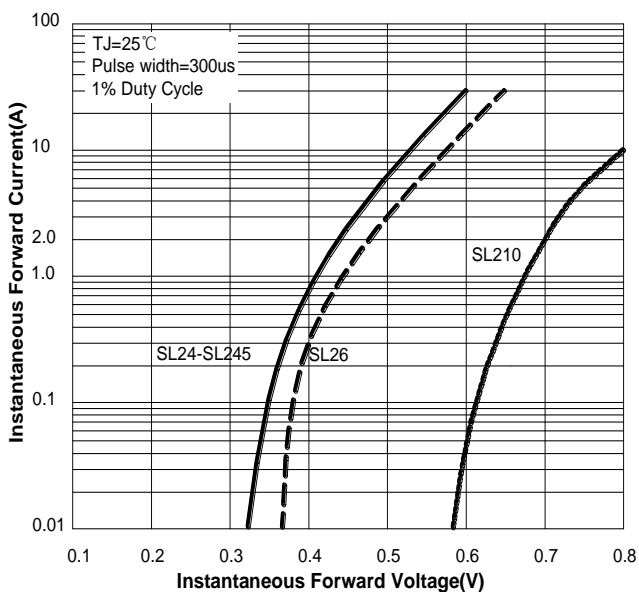
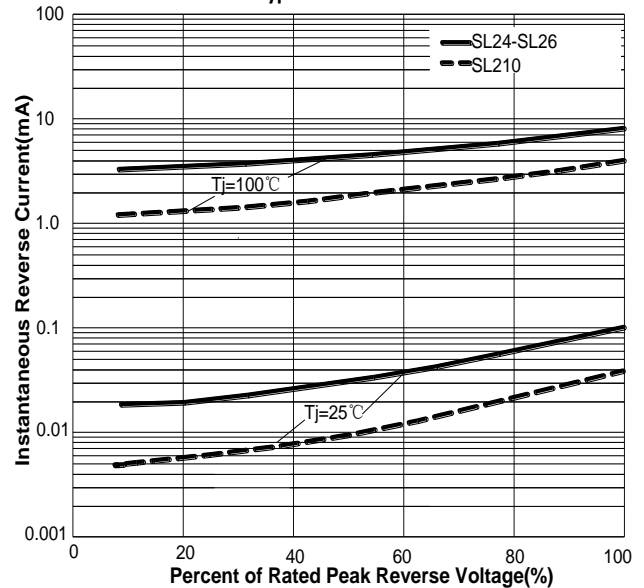
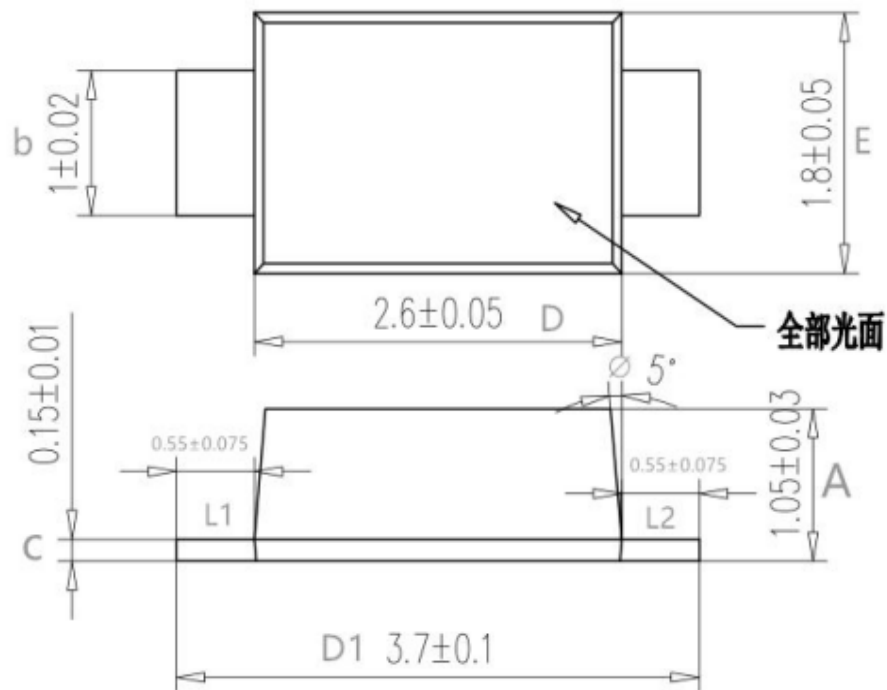


FIG4: Typical Reverse Characteristics





项目	公制 (mm)	
	MIN	MAX
*A	1.02	1.08
*b	0.98	1.02
*c	0.14	0.16
*D	2.55	2.65
*D1	3.60	3.80
*E	1.75	1.85
*L1	0.475	0.625
*L2	0.475	0.625
$\theta$	$4^\circ$	$6^\circ$
带*为检验尺寸		