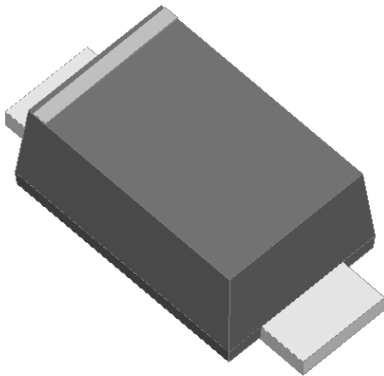


## SL34 THRU SL310

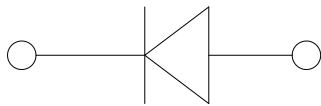


### Features

- 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	SL34	SL36	SL310
Device marking code			<b>SL34</b>	<b>SL36</b>	<b>SL310</b>
Repetitive peak reverse voltage	VRRM	V	40	60	100
Average rectified output current @60Hz Half-sine wave, Resistance load, T <sub>a</sub> (FIG.1)	I <sub>O</sub>	A	3.0		
Surge(non-repetitive)forward current @ 60Hz half-sine wave, 1 cycle, T <sub>j</sub> =25°C	IFSM	A	60		
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	SL34	SL36	SL310
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =3.0A	0.45	0.5	0.6
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I <sub>RRM</sub>	mA	T <sub>a</sub> =25°C	0.50		
			T <sub>a</sub> =100°C	10		

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

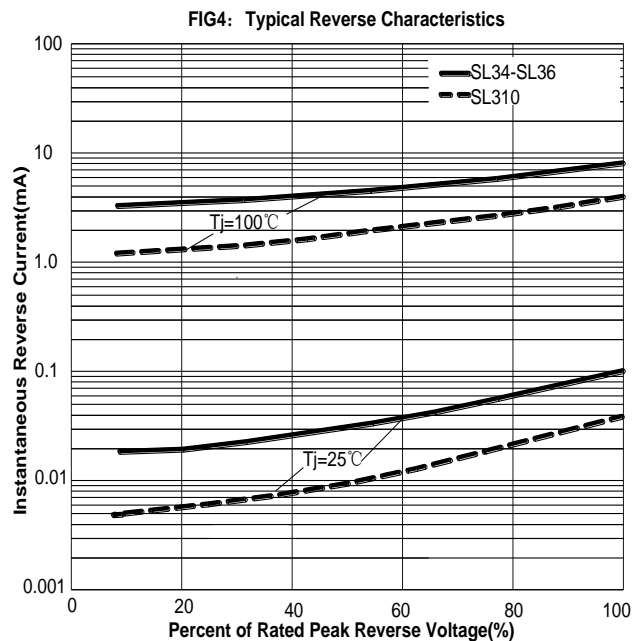
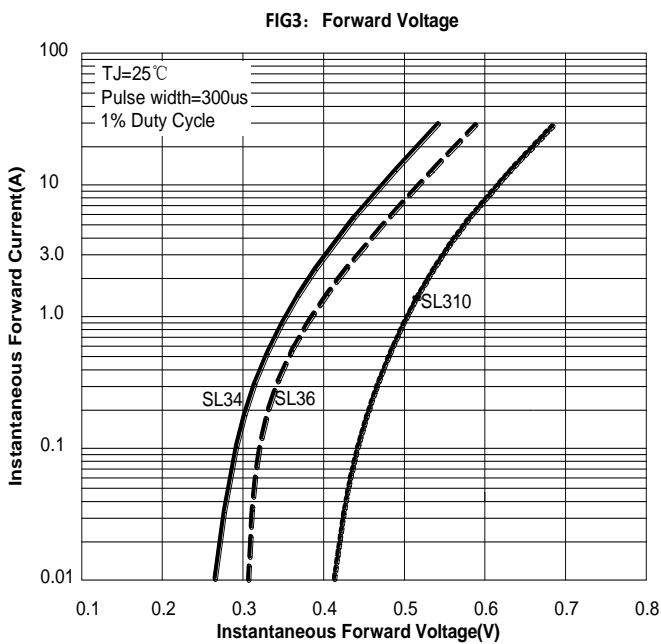
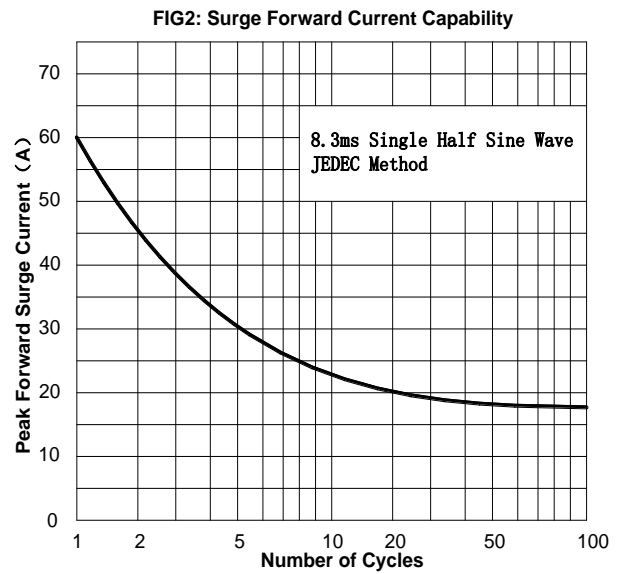
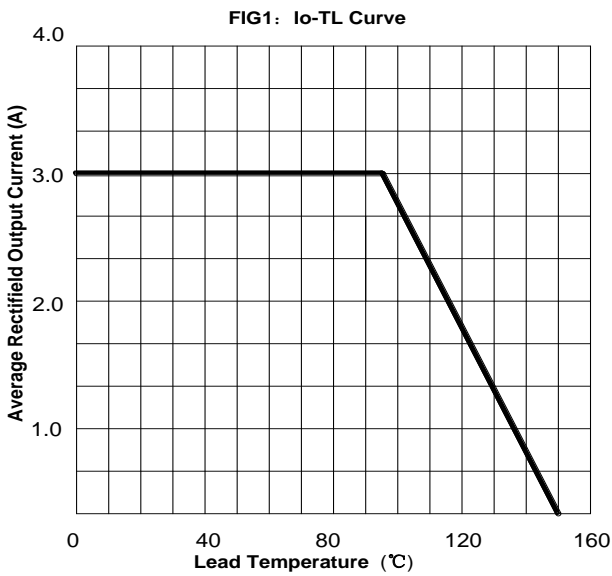
PARAMETER	SYMBOL	UNIT	SL34	SL36	SL310
Thermal resistance	R $\theta$ J-A	°C/W	70 <sup>(1)</sup>		
	R $\theta$ J-L		20 <sup>(1)</sup>		
	R $\theta$ J-C		30 <sup>(1)</sup>		

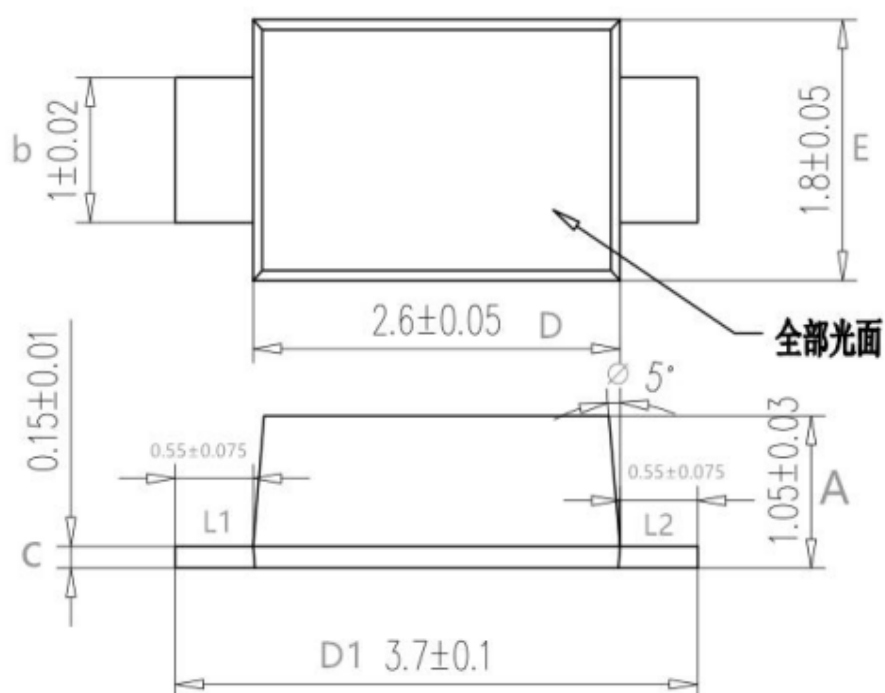
Note:

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

(2)

## ■ Characteristics (Typical)





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
$\emptyset$	$4^\circ$	$6^\circ$
带*为检验尺寸		