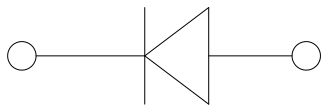
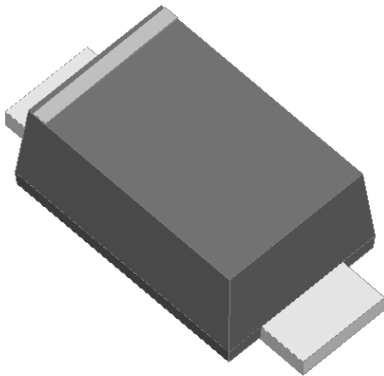


SL14 THRU SL110



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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SL14	SL16	SL110
Device marking code			SL14	SL16	SL110
Repetitive peak reverse voltage	VRRM	V	40	60	100
Average rectified output current @60Hz sine wave, Resistance load, T_a (FIG.1)	I_O	A	1.0		
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	28		
Storage temperature	T_{stg}	$^\circ\text{C}$	-55 ~+150		
Junction temperature	T_j	$^\circ\text{C}$	-55 ~+150		

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SL14	SL16	SL110
Maximum instantaneous forward voltage drop per diode	V_F	V	IFM=1.0A	0.4	0.55	0.6
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	IRRM	mA	$T_a=25^\circ\text{C}$	0.50		
			$T_a=100^\circ\text{C}$	10		

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SL14	SL16	SL110
Thermal Resistance	R _θ J-A	°C/W	70 ¹⁾		
	R _θ J-L		20 ¹⁾		

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_o-T_L Curve

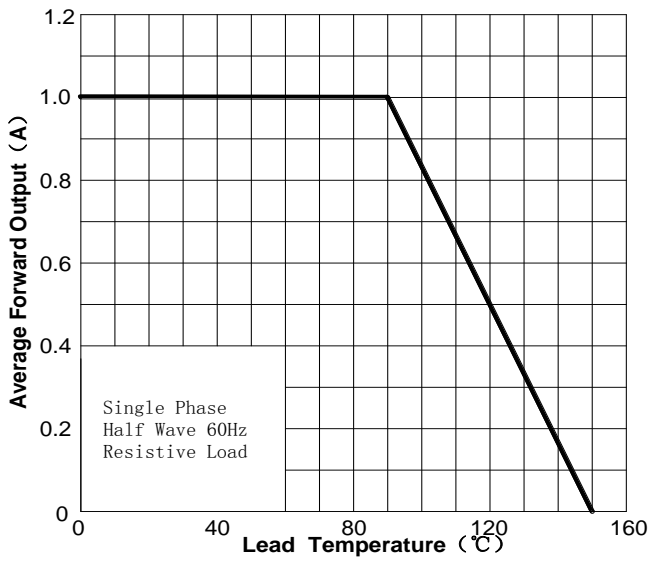


FIG2: Surge Forward Current Capability

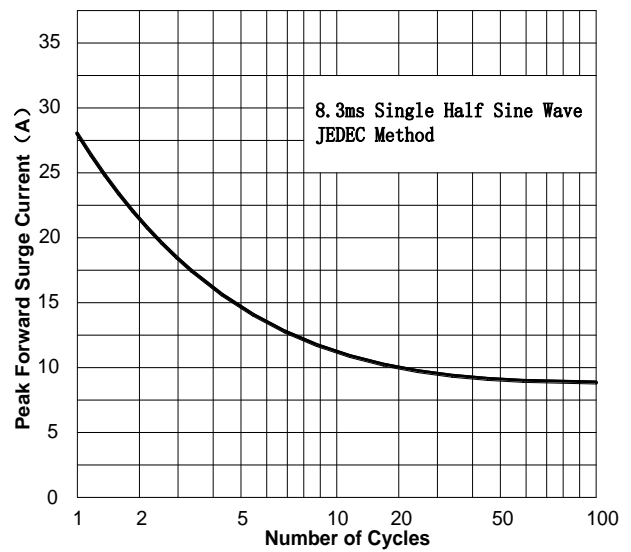


FIG3: Forward Voltage

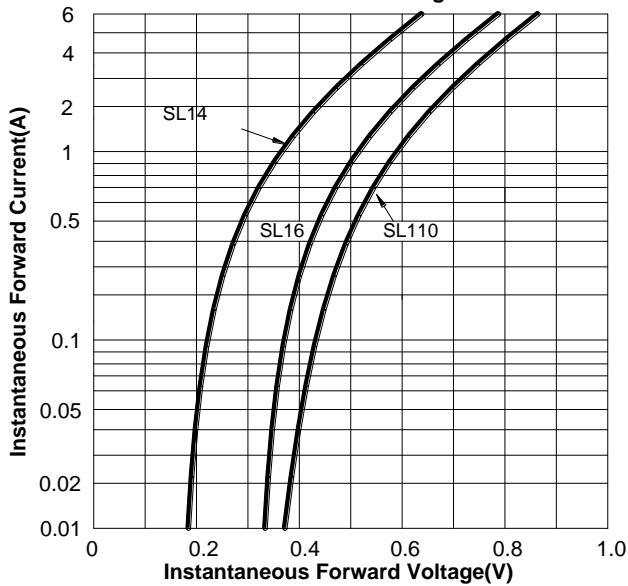
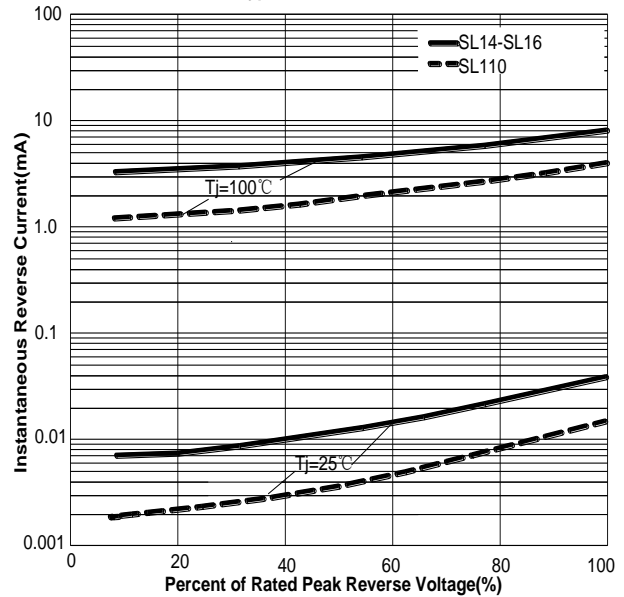
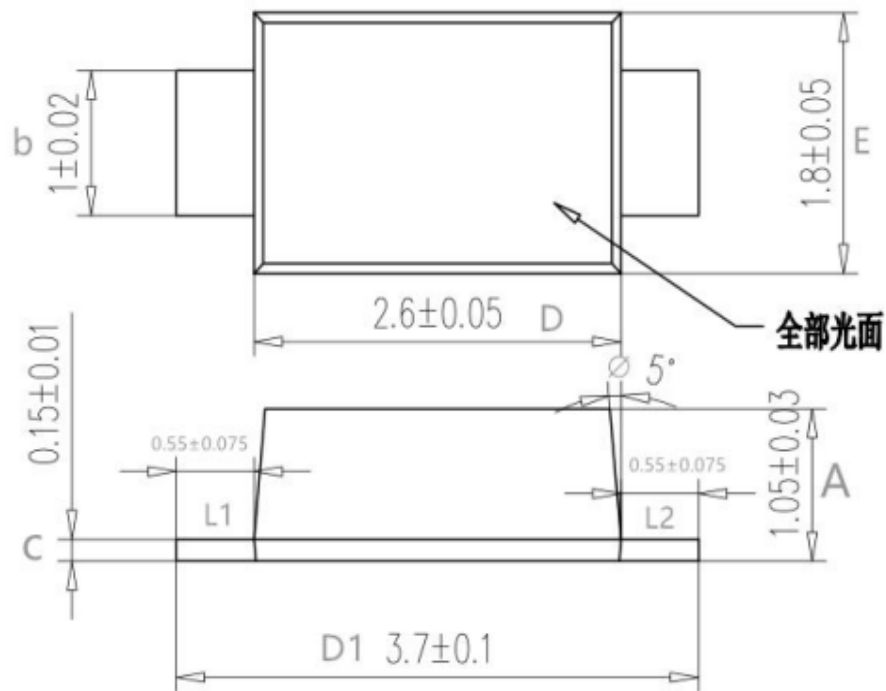


FIG4: Typical Reverse Characteristics





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
θ	4°	6°
带*为检验尺寸		