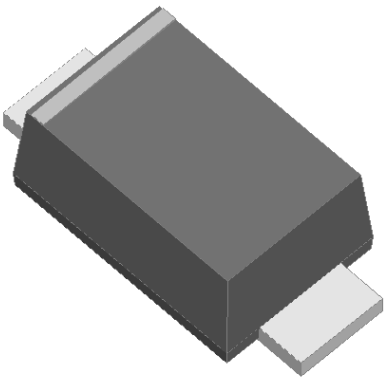
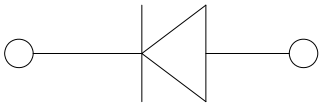
H1A THRU H1M





Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Fast switching for 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 high efficient switching rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.

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 (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	H1A	H1B	H1D	H1G	H1J	H1K	H1M
Device marking code			H1A	H1B	H1D	H1G	H1J	H1K	H1M
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz Half-sine wave, Resistance load, TL (FIG.1)	I_O	A	1.0						
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	30						
Storage temperature	T_{stg}	℃	-55 ~+150						
Junction temperature	T_j	℃	-55 ~+150						

■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	H1A	H1B	H1D	H1G	H1J	H1K	H1M
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=1.0A	1.0			1.3	1.7		
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A,I_{RR}=0.25A	50				75		
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM}	μA	Ta=25℃	5						
			Ta=125℃	100						

■Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	H1A	H1B	H1D	H1G	H1J	H1K	H1M
Typical Thermal resistance	RθJ-A	℃/W	70[1)]						
	RθJ-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)

FIG.1: Io-TL Cure

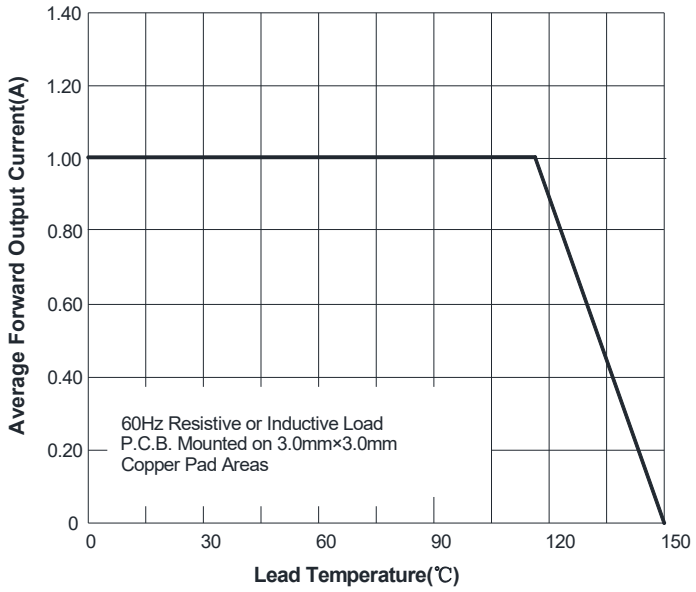


FIG.2: Forward Surge Current Capability

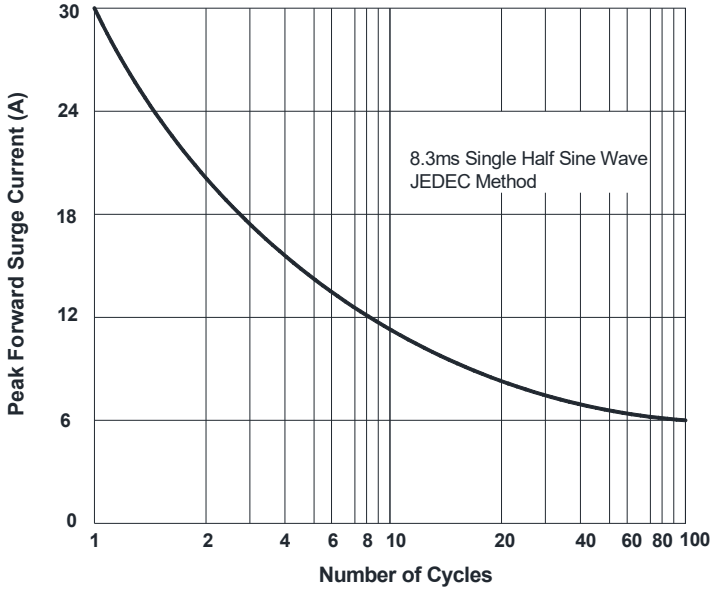


FIG.3: Typical Forward Characteristics

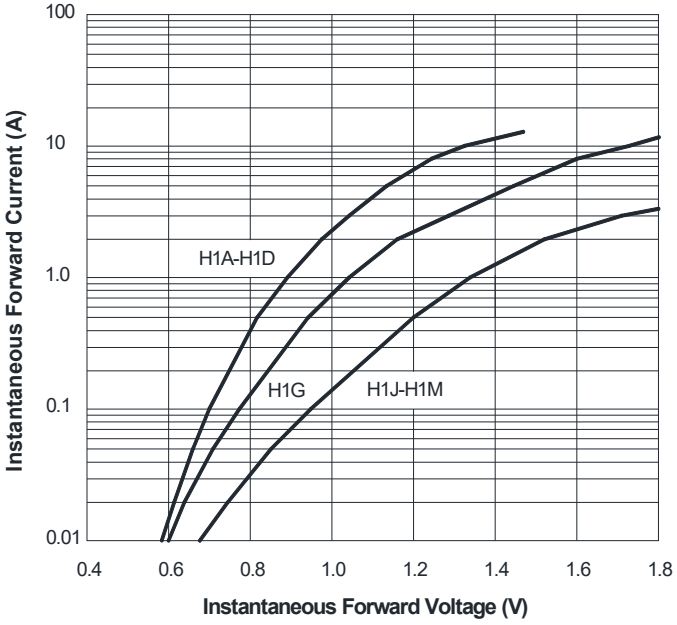
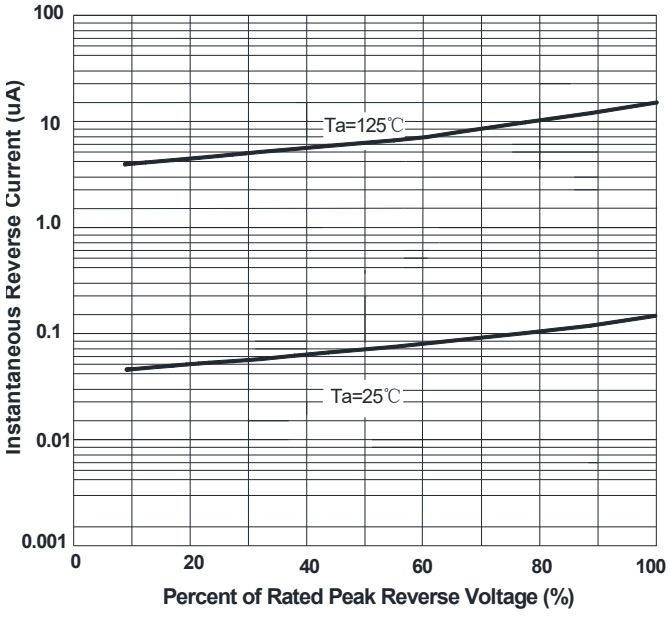
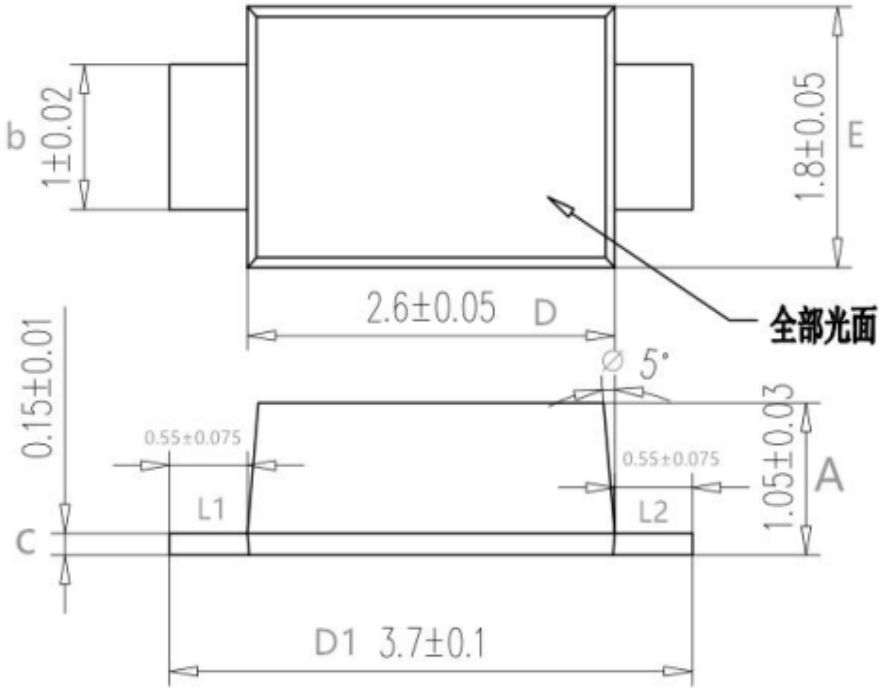


FIG.4: Typical Reverse Characteristics





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
Ø	4°	6°
带*为检验尺寸		