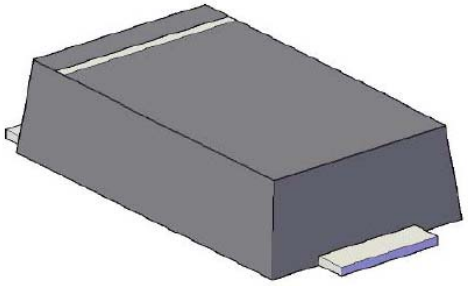
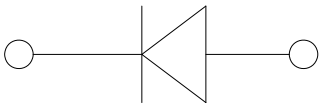
Surface Mount Schottky Rectifier





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-123HE
  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	SL34E	SL36E	SL310E
Device marking code			**SL34E**	**SL36E**	**SL310E**
Repetitive peak reverse voltage	V_{RRM}	V	40	60	100
Average rectified output current @60Hz Half-sine wave, Resistance load, TL (FIG.1)	I_O	A	3.0		
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	60		
Storage temperature	T_{stg}	℃	-55 ~+150		
Junction temperature	T_j	℃	-55 ~+150		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SL34E	SL36E	SL310E
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=3.0A	0.45	0.5	0.6
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I_{RRM}	mA	Ta=25℃	0.50		0.1
			Ta=100℃	10		5

Note1:Pulse test:300uS pulse widh,1% duty cycle

Note2:Pulse test:pulse widh 40mS

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

PARAMETER	SYMBOL	UNIT	SL34E	SL36E	SL310E
Thermal resistance	RθJ-A	℃/W	80		
	RθJ-L		20		

■ Characteristics (Typical)

FIG1：Io-TL Curve

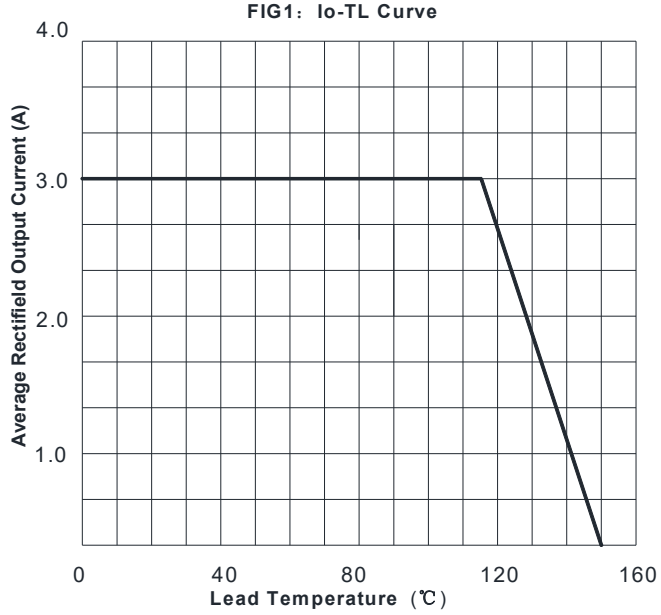


FIG2: Surge Forward Current Capability

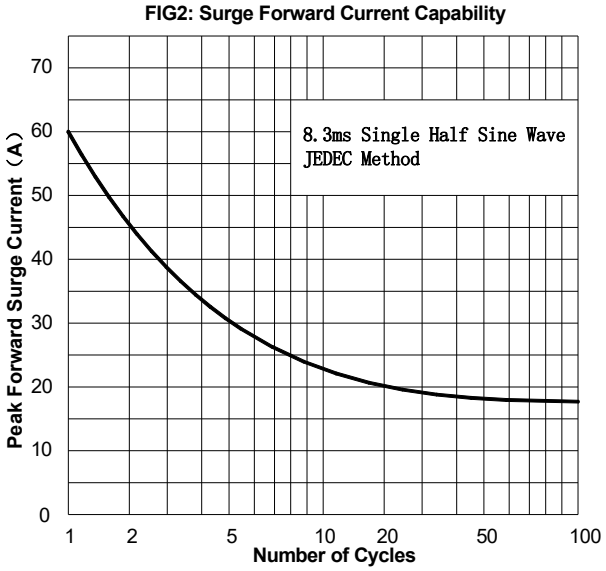


FIG3：Forward Voltage

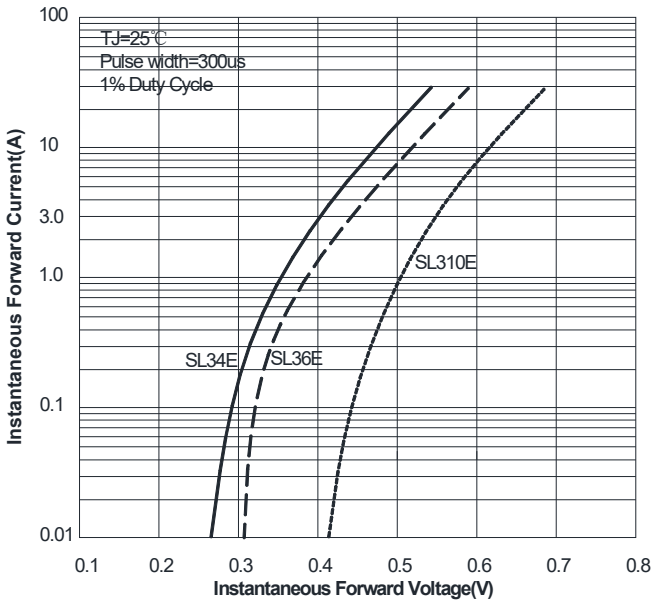
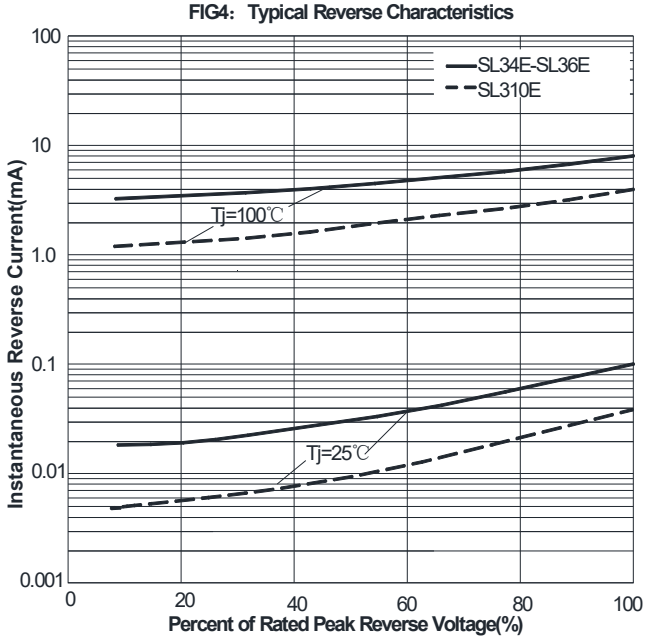
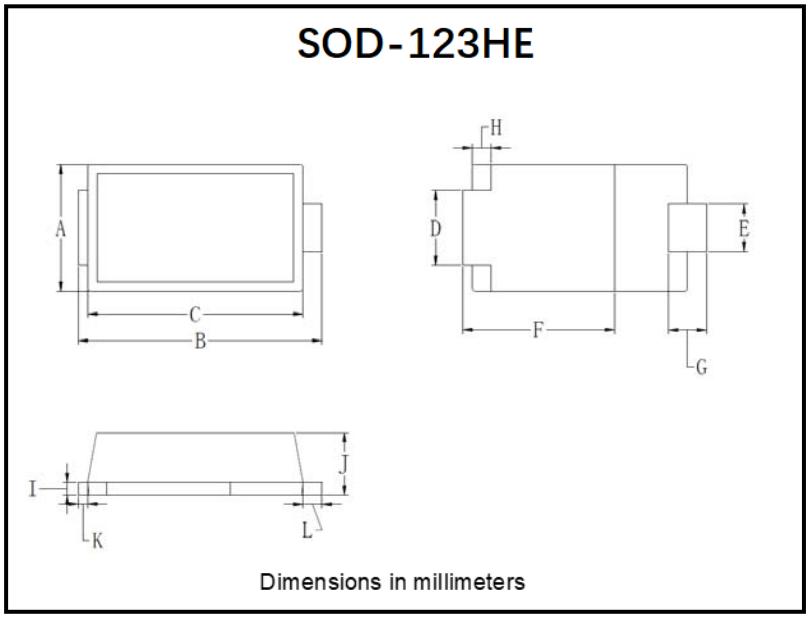


FIG4：Typical Reverse Characteristics

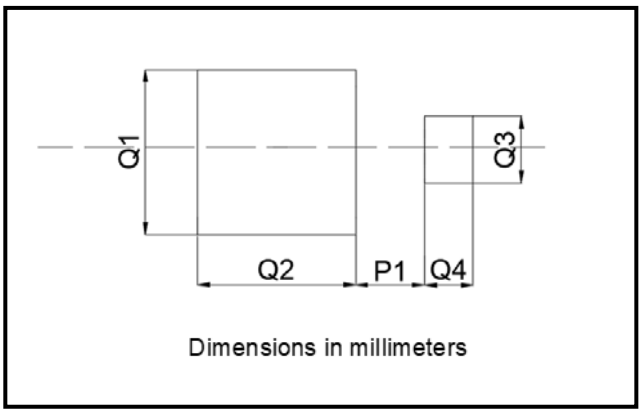


■ Outline Dimensions



SOD-123HE		
Dim	Min	Max
A	1.88	2.18
B	3.70	4.00
C	3.19	3.61
D	1.05	1.35
E	0.61	0.91
F	2.20	2.90
G	0.40	0.80
H	0.30 TYP	
I	0.10	0.30
J	0.85	1.15
K	0.00	0.30
L	0.15	0.45

■ Suggested pad layout



SOD-123HE	
Dim	Millimeters
P1	0.64
Q1	2.54
Q2	2.67
Q3	1.27
Q4	0.76

Notice

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