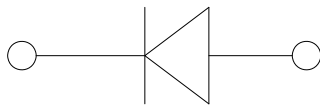
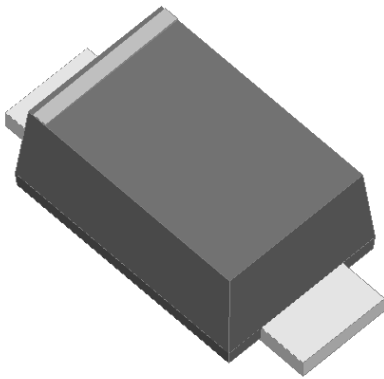


## Surface Mount Schottky Rectifier



### Features

- Low profile package
- Ideal for automated placement
- 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>j</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S34T
Device marking code			S34T
Repetitive peak reverse voltage	VRRM	V	40
Maximum RMS Voltage	VRMS	V	28
Average rectified output current @60Hz sine wave, Resistance load, TL (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	I <sub>FSM</sub>	A	65
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150
Junction temperature	T <sub>j</sub>	°C	-55 ~+150
Typical Junction capacitance @4V,1MHz	C <sub>j</sub>	pF	168

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S34T
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =3.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	IRR <sub>M</sub>	mA	T <sub>j</sub> =25°C	0.1
			T <sub>j</sub> =125°C	10

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

Note2:Pulse test:pulse width 40mS



# S34T

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

PARAMETER	SYMBOL	UNIT	S34T
Thermal Resistance	R <sub>θJ-A</sub>	°C/W	77
	R <sub>θJ-L</sub>		15

## ■ Characteristics (Typical)

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

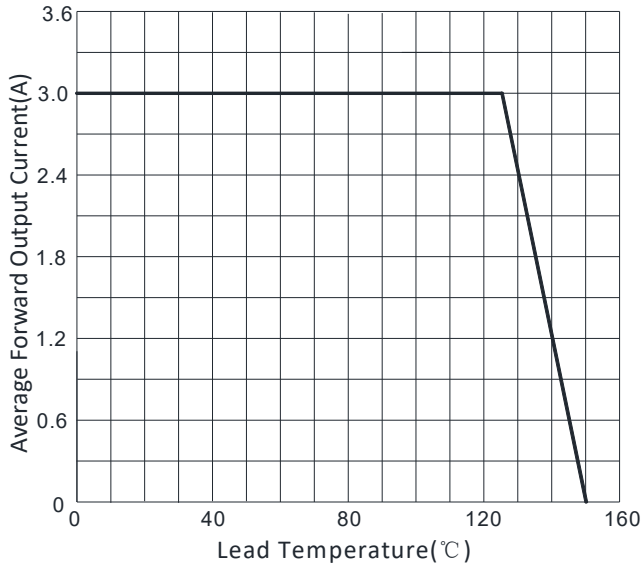


FIG2: Surge Forward Current Capability

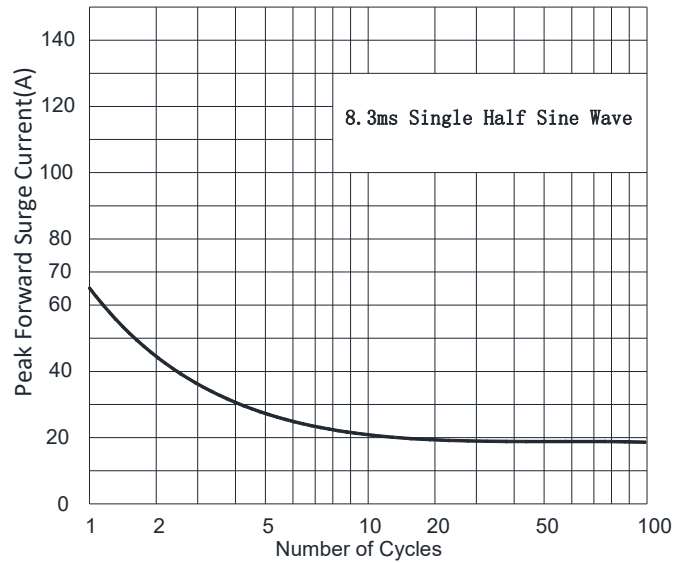


FIG3: Forward Voltage

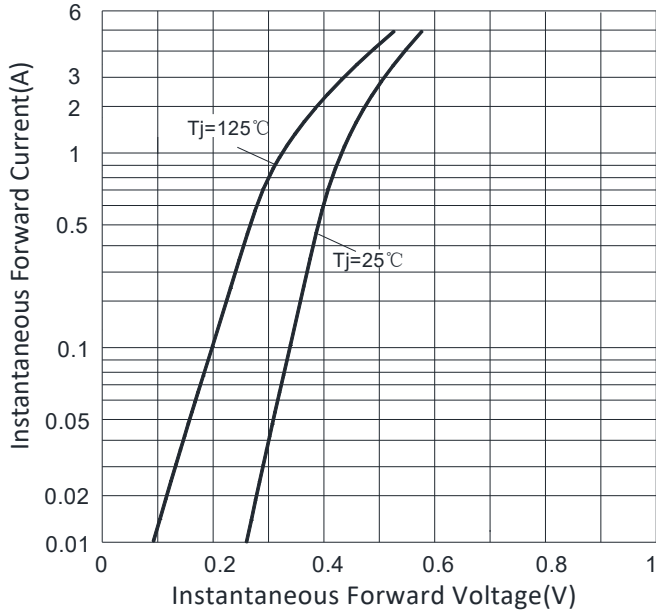
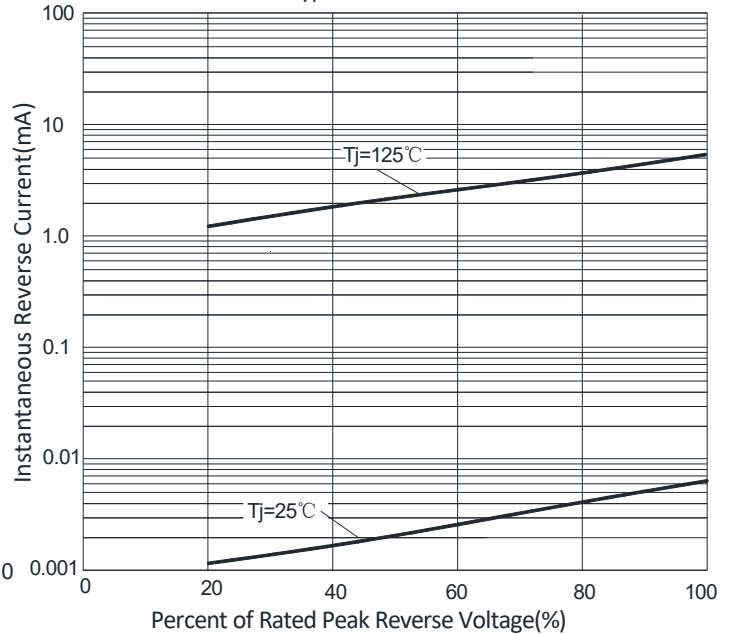


FIG4: Typical Reverse Characteristics



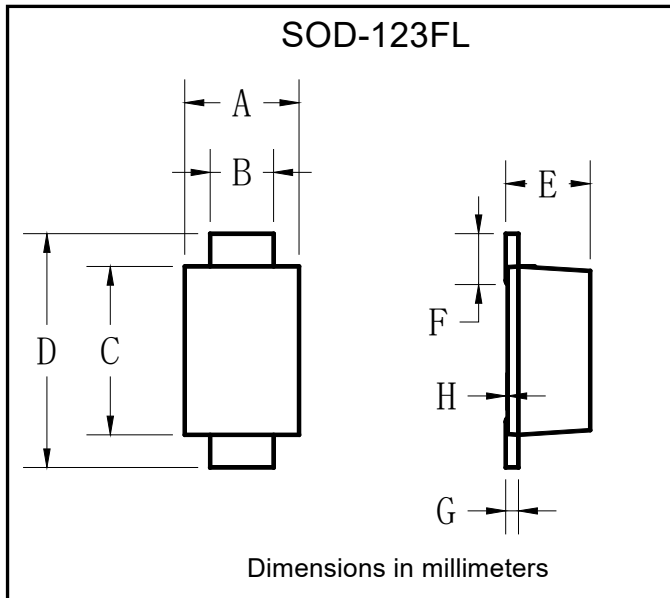


# S34T

## ■ Ordering Information (Example)

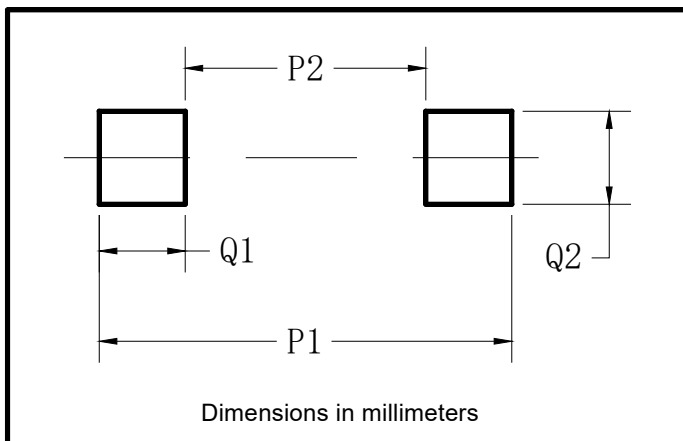
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S34T	F1	Approximate 0.0169	3000	30000	120000	7" reel
S34T	F2	Approximate 0.0169	2500	25000	100000	7" reel
S34T	F3	Approximate 0.0169	10000	30000	210000	13" reel
S34T	F4	Approximate 0.0169	3000	27000	108000	7" reel
S34T	F5	Approximate 0.0169	10000	20000	160000	13" reel
S34T	F6	Approximate 0.0169	3000	12000	60000	7" reel

## ■ Outline Dimensions



SOD-123FL		
Dim	Min	Max
A	1.60	1.90
B	0.90	1.10
C	2.55	2.85
D	3.60	3.90
E	1.00	1.20
F	0.40	0.90
G	0.10	0.25
H	0.02	0.05

## ■ Suggested pad layout



SOD-123FL	
Dim	Millimeters
P1	3.90
P2	1.90
Q1	1.00
Q2	1.50



## S34T

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### Disclaimer

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