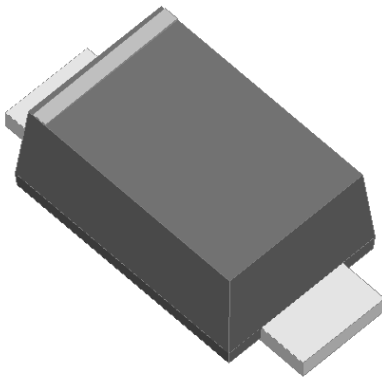


Surface Mount Schottky Rectifier

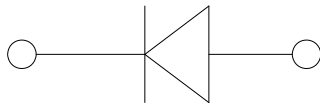


Features

- 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
- Part no. with suffix "Q" means AEC-Q101 qualified

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive and polarity protection applications.



Mechanical Data

- **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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S26Q
Device marking code			S26
Repetitive peak reverse voltage	V _{RRM}	V	60
Maximum RMS voltage	V _{RMS}	V	42
Maximum DC blocking voltage	V _{DC}	V	60
Maximum average forward rectified current at T _L (Fig.1)	I _O	A	2.0
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _J =25°C	I _{FSM}	A	50
Voltage rate of change (rated V _R)	dV/dt	V/μs	10000
Storage temperature	T _{stg}	°C	-55 ~+150
Junction temperature	T _J	°C	-55 ~+150

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

PARAMETER	SYMBOL	TEST CONDITIONS	TYP	MAX	UNIT	
Instantaneous forward voltage	V _F	I _F =2A	T _J =25°C	0.58	0.7	V
			T _J =125°C	0.53		
Reverse current	I _R	Rated V _R	T _J =25°C	-	100	μA
			T _J =125°C	-	10	mA
Typical junction capacitance	C _J	V _R =4V, f=1MHz	95	-	pF	



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

PARAMETER	SYMBOL	UNIT	S26Q
Thermal Resistance	R _{θJ-A}	°C/W	85 ⁽¹⁾
	R _{θJ-L}		35 ⁽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: Forward Current Derating Curve

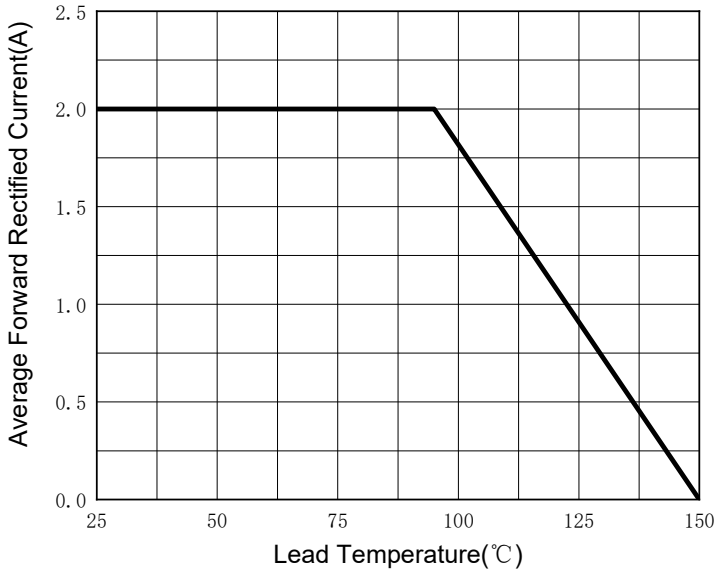


Fig.2: Maximum Non-Repetitive Peak Forward Surge Current

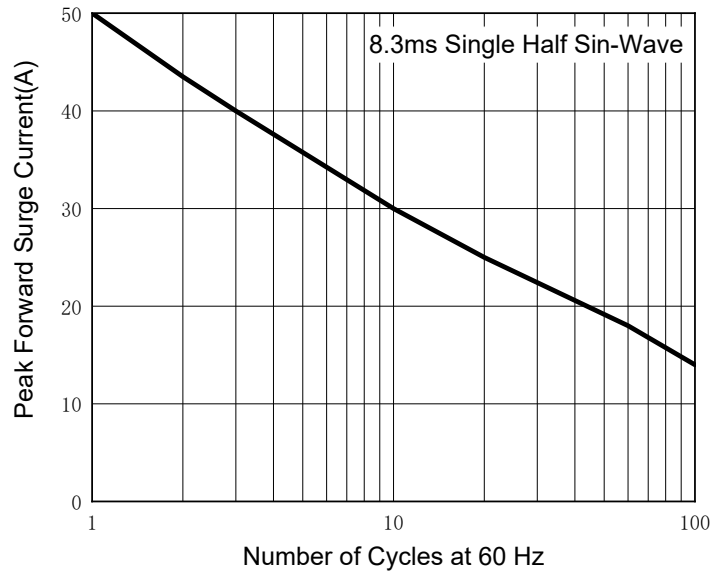


Fig.3: Typical Instantaneous Forward Characteristics

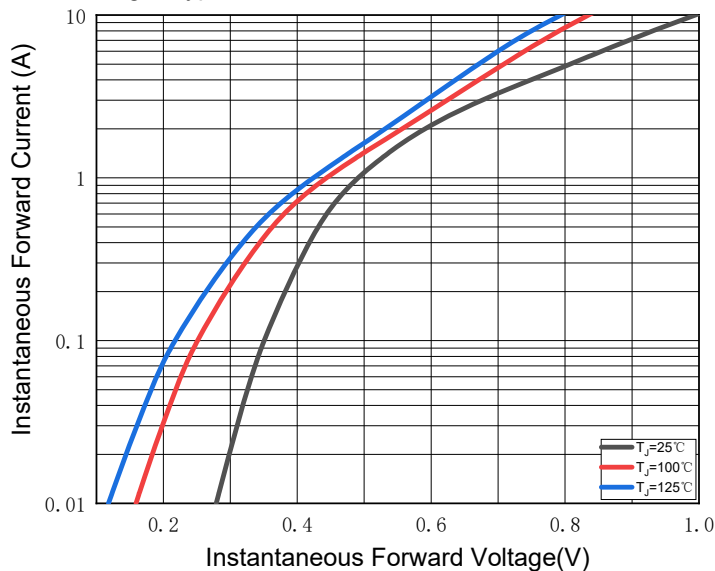
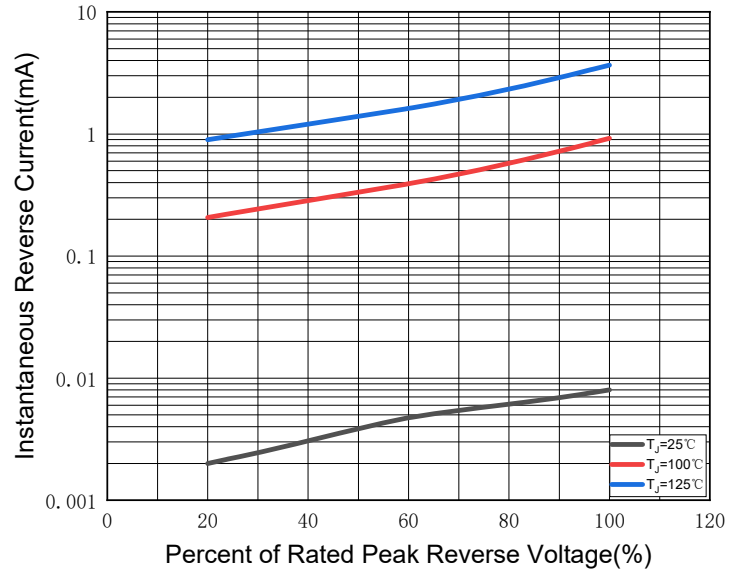


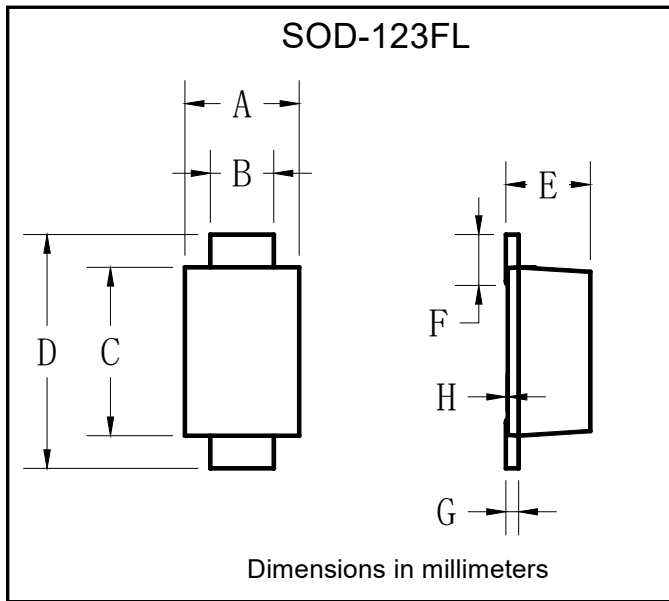
Fig.4: Typical Reverse Leakage Characteristics



■ Ordering Information (Example)

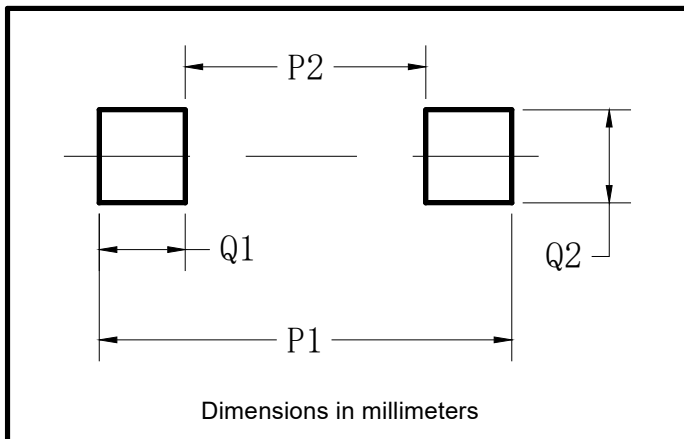
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S26Q	F1	Approximate 0.0169	3000	120000	7" reel

■ 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



S26Q

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