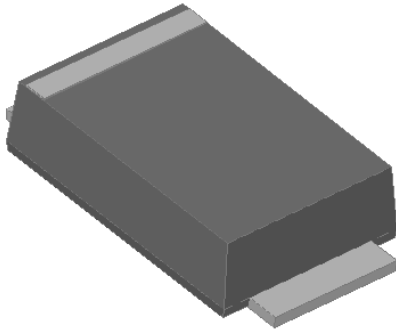


Surface Mount Schottky Rectifier

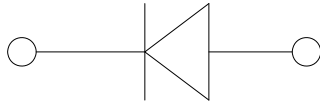


Features

- Guard ring for overvoltage protection
- Low power losses
- Extremely fast switching
- High forward surge capability
- High frequency operation
- 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:** SMAF
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	S26FQ
Device marking code			S26F
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	75
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	0.63	
Reverse current	I _R	Rated V _R	T _J =25°C	8	100	μA
			T _J =125°C	-	10	mA
Typical junction capacitance	C _J	V _R =4V,f=1MHz		95	-	pF



S26FQ

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

PARAMETER	SYMBOL	UNIT	S26FQ
Thermal Resistance	$R_{\theta J-A}$	°C/W	65 ⁽¹⁾
	$R_{\theta J-L}$		25 ⁽¹⁾

Note:

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 5 mm x 5 mm copper pad areas

■ Characteristics(Typical)

Fig.1:Forward Current Derating Curve

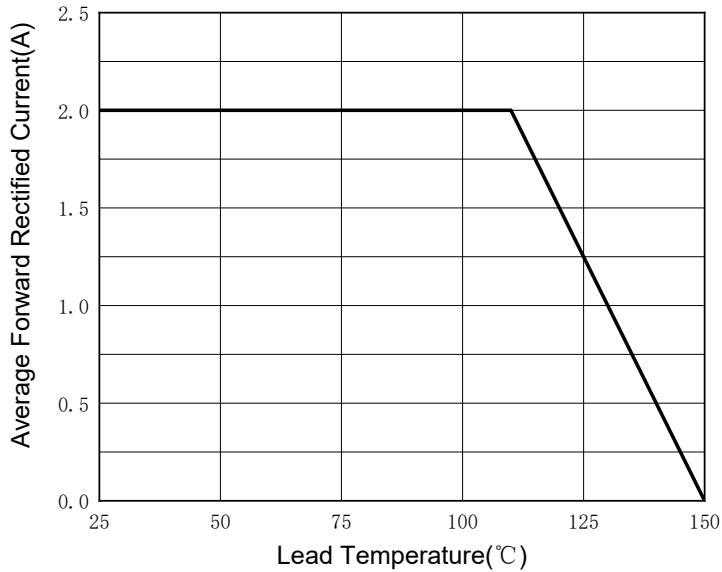


Fig.2:Maximum Non-Repetitive Peak Forward Surge Current

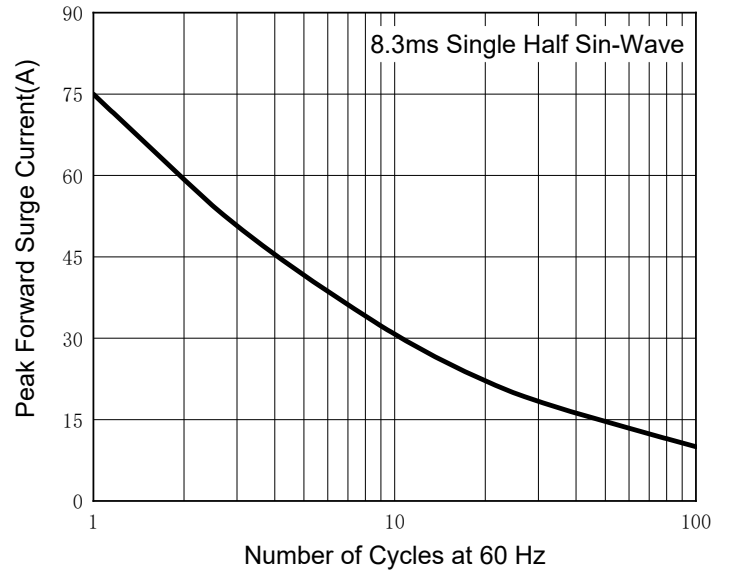


Fig.3:Typical Instantaneous Forward Characteristics

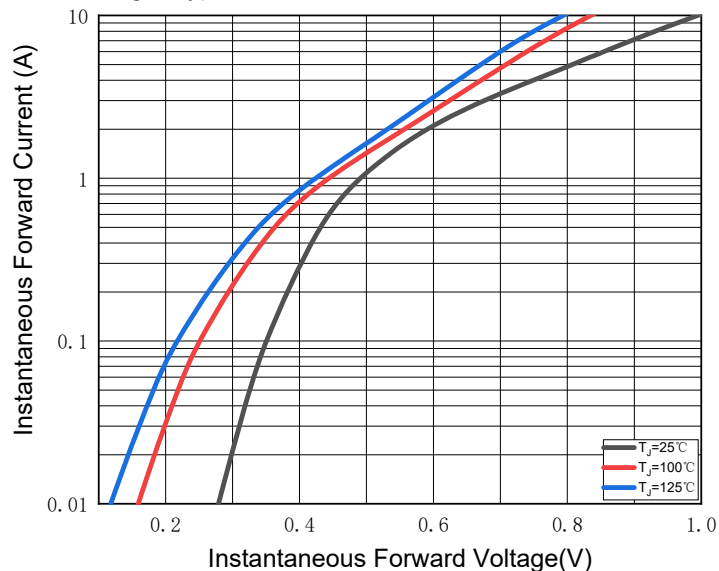
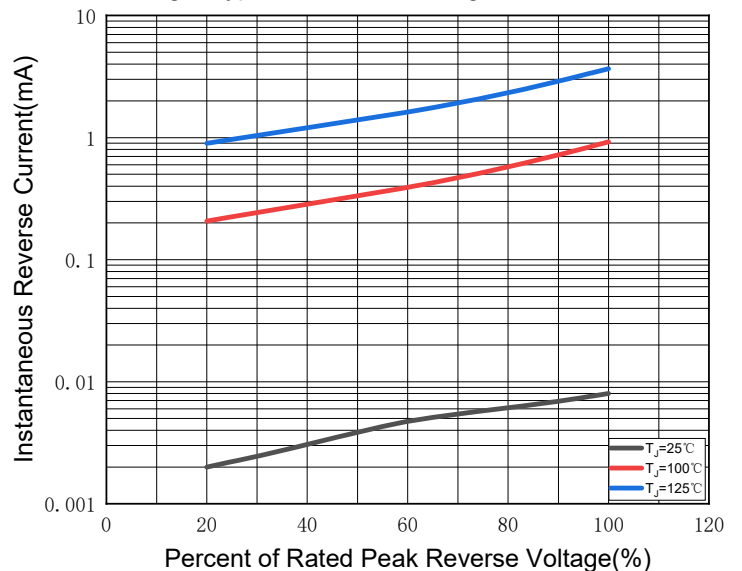


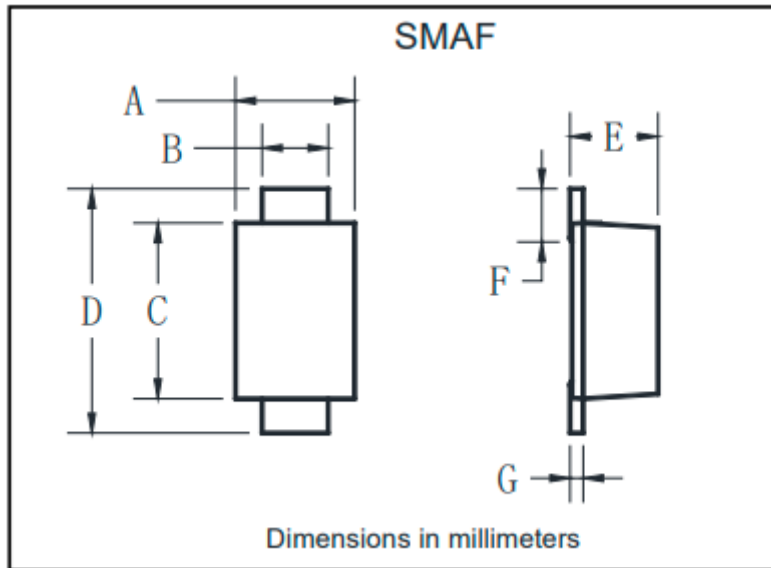
Fig.4:Typical Reverse Leakage Characteristics



■ Ordering Information (Example)

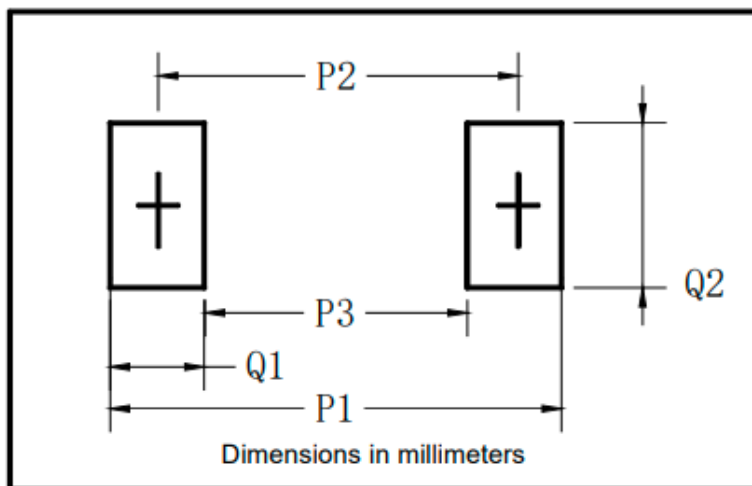
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S26FQ	F1	Approximate 0.034	3000	96000	7" reel

■ Outline Dimensions



SMAF		
Dim	Min	Max
A	2.40	2.80
B	1.35	1.45
C	3.40	3.60
D	4.40	4.80
E	1.05	1.25
F	0.50	1.00
G	0.15	0.31

■ Suggested pad layout



SMAF	
Dim	Millimeters
P1	6.50
P2	4.00
P3	1.50
Q1	2.50
Q2	1.70



S26FQ

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