

FEATURES

- | Low reverse leakage
- | High forward surge capability
- | High reliability
- | Meet AEC-Q101 Requirements



DO-15

MECHANICAL DATA

- | Case: Molded plastic, DO-15
- | Polarity: Color band denotes cathode end
- | Mounting position: Any

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	SF21Q	SF22Q	SF23Q	SF24Q	SF25Q	SF26Q	SF28Q	Unit
Marking		SF21G-Q	SF22G-Q	SF23G-Q	SF24G-Q	SF25G-Q	SF26G-Q	SF28G-Q	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0							A
Non-repetitive peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	50							
Maximum Forward Voltage at 2.0A DC	V _F	0.95				1.25		1.70	V
Maximum DC reverse current at rated DC blocking voltage	I _R	T _A =25°C							μA
		T _A =125°C							
Reverse Recovery time I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	T _{RR}	35							nS
Type junction capacitance V _R =4.0V, f=1MHz	C _J	22							pF
Typical thermal resistance (Note 1)	R _{θJA}	60							°C/W
Operating Junction And Storage Temperature Range	T _J , T _{STG}	-55~+150							°C

Note:

1. Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted

CHARACTERISTIC CURVES

Fig.1 - Typical Forward Characteristic

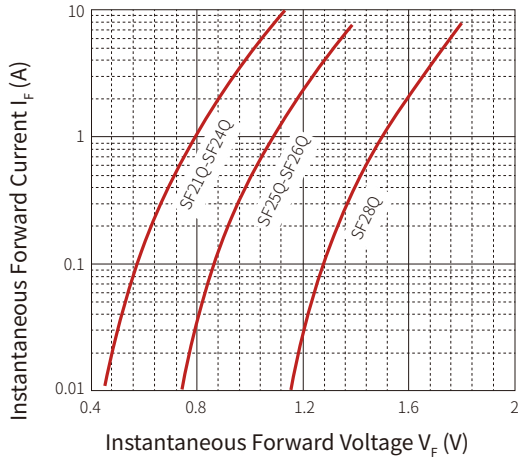


Fig.2 - Forward Current Derating Curve

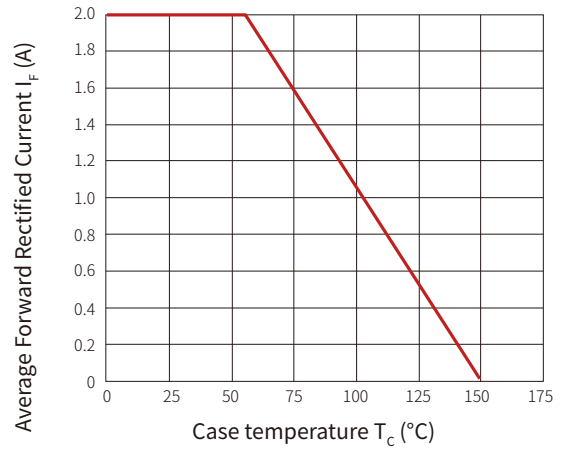


Fig.3 - Maximum Non Repetitive Peak Forward Surge Current

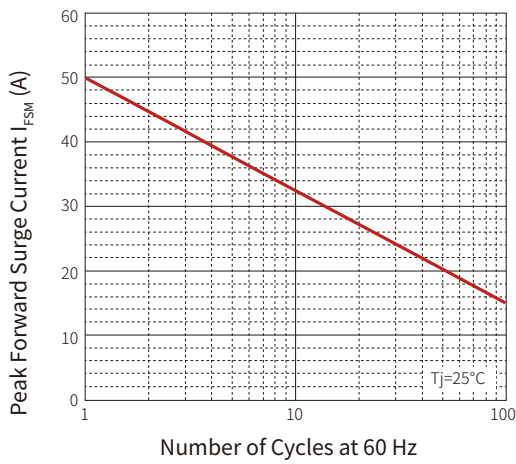
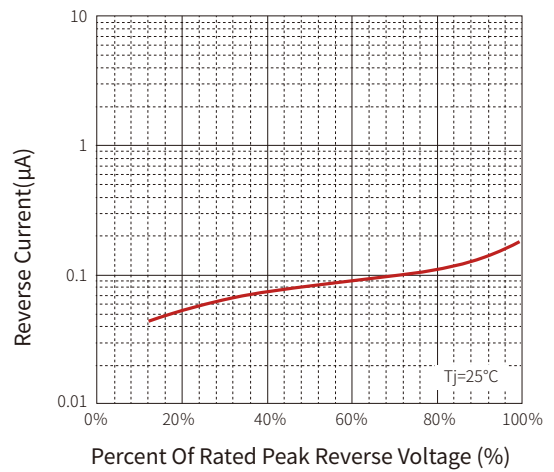
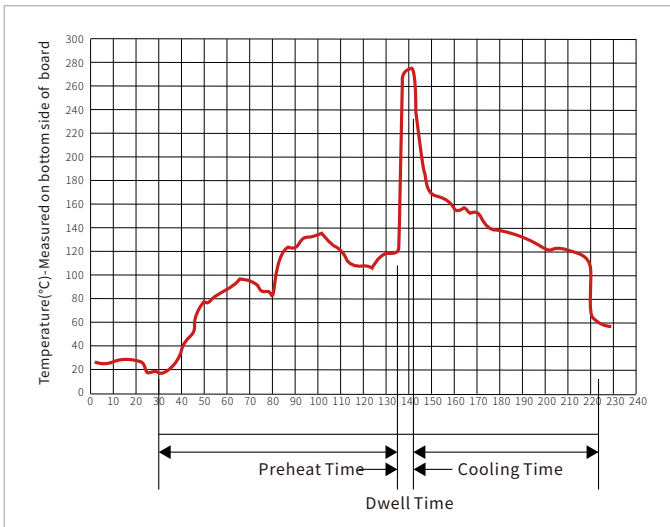


Fig.4 - Typical Reverse Characteristics

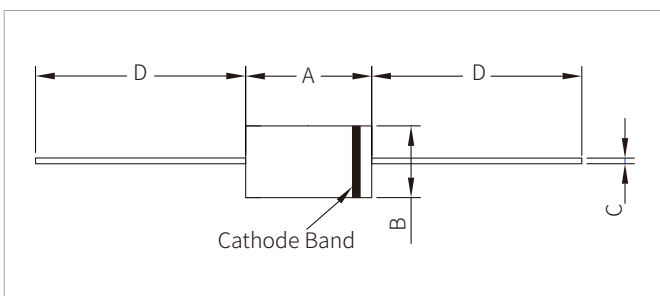


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

DO-15 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.70	0.90	0.026	0.034
D	25.40	-	1.000	-

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
SF21Q-SF28Q	DO-15	3000pcs	Box

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By QR Code

Website



Wechat

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