SIYU®

SF21 ...... SF28

塑封超快速整流二极管
反向电压 50 ---600V

正向电流 2.0 A

Plastic Super Fast Recover Rectifier
Reverse Voltage 50 to 600V

Forward Current 2.0A

DO-15

1.0(25.4) MIN

.034(0.9) / .028(0.7) DIA

.300(7.6) / .230(5.8)

.140(3.6) / .104(2.6) DIA

1.0(25.4) MIN

Unit: inch（mm）
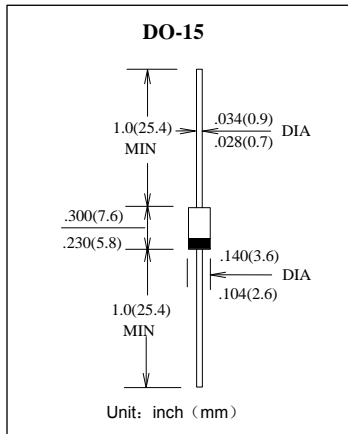
特征 Features

- 反向漏电流低　Low reverse leakage
- 正向浪涌承受能力较强　High forward surge capability
- 高温焊接保证　High temperature soldering guaranteed:
  260℃/10 秒, 0.375" (9.5mm)引线长度。
  260℃/10 seconds, 0.375" (9.5mm) lead length,
- 引线可承受5 磅 (2.3kg) 拉力。 5 lbs. (2.3kg) tension
- 引线和管体皆符合RoHS标准 。
  Lead and body according with RoHS standard

机械数据 Mechanical Data

- 端子: 镀锡轴向引线　Terminals: Plated axial leads
- 极性: 色环端为负极　Polarity: Color band denotes cathode end
- 安装位置: 任意　Mounting Position: Any

极限值和温度特性　TA = 25℃　除非另有规定。
Maximum Ratings & Thermal Characteristics　Ratings at 25℃ ambient temperature unless otherwise specified.

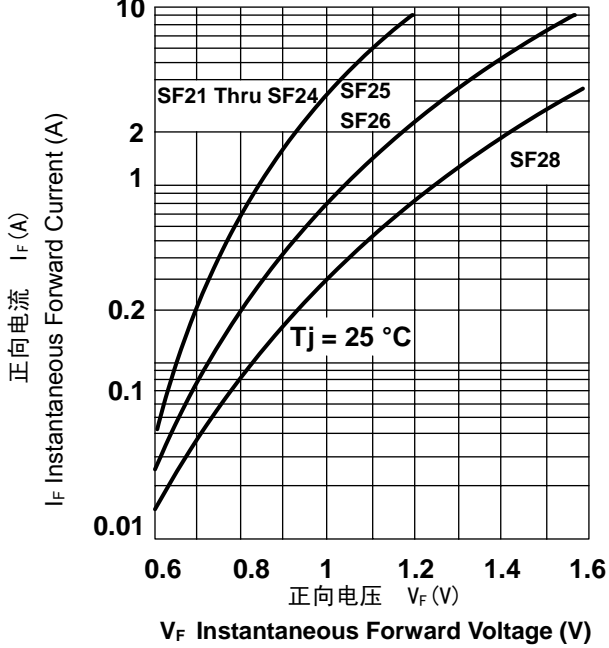|	符号 Symbols	SF21	SF22	SF23	SF24	SF25	SF26	SF28	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	150	200	300	400	600	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	100	150	200	300	400	600	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	2.0							A
峰值正向浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	50							A
典型热阻　Typical thermal resistance	$R_{\theta JA}$	45							℃/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-55 --- +150							℃

电特性　TA = 25℃ 除非另有规定。
Electrical Characteristics　Ratings at 25℃ ambient temperature unless otherwise specified.

		符号 Symbols	SF21	SF22	SF23	SF24	SF25	SF26	SF28	单位 Unit
最大正向电压 Maximum forward voltage	I_F = 2.0A	V_F	0.95				1.3		1.7	V
最大反向电流 Maximum reverse current	TA= 25℃ TA= 100℃	I_R	5.0 100							µA
最大反向恢复时间 MAX. Reverse Recovery Time	I_F=0.5A I_R=1.0A I_{RR}=0.25A	trr	35							nS
典型结电容 Type junction capacitance	V_R = 4.0V, f = 1MHz	C_j	22							pF

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特性曲线 Characteristic Curves

正向特性曲线（典型值）
TYPICAL FORWARD CHARACTERISTIC

I_F Instantaneous Forward Current (A)
正向电流 I_F (A)

SF21 Thru SF24   SF25
SF26
SF28

$T_j = 25\ ^\circ C$

正向电压 V_F (V)
V_F Instantaneous Forward Voltage (V)

正向电流降额曲线
FORWARD CURRENT DERATING CURVE

$I_{F(AV)}$ (A)
$I_{F(A)}$ Average Forward Rectified Current (A)
平均正向电流

10mm   10mm

环境温度 Ta（℃）
Tamb, ambient temperature (°C)
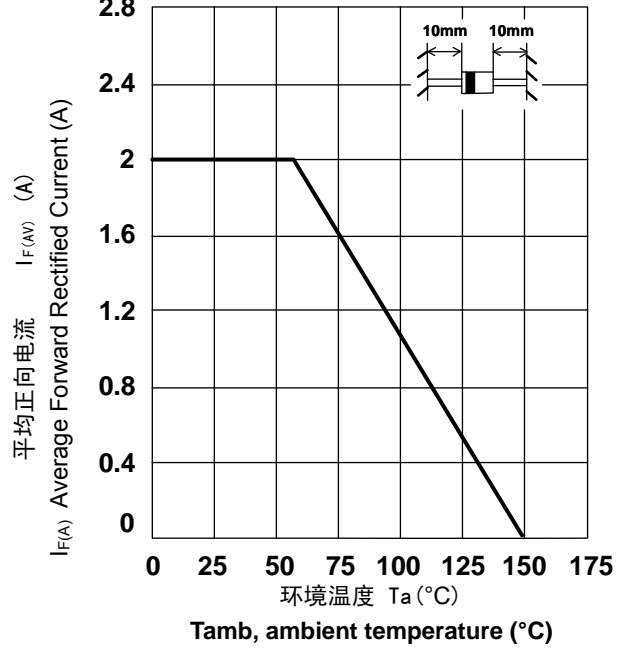
浪涌特性曲线（最大值）
**MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT**

I_{FSM} (A)
I_{FSM} Peak Forward Surge Current (A)
峰值正向浪涌电流

通过电流的周期
Number of Cycles at 60 Hz.

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