南通皋鑫

SF31G SF38G

塑封高效率整流二极管

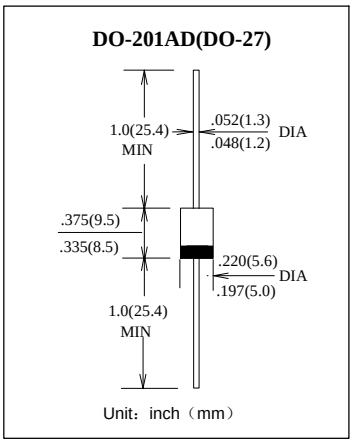
反向电压 50 ---600V

正向电流 3.0 A

Plastic High-Efficiency Rectifiers

Reverse Voltage 50 to 600V

Forward Current 3.0A



特征 Features

- 玻璃钝化芯片 Glass Passivated
- **低的反向漏电流** Low reverse leakage
- **较强的正向浪涌承受能力** High forward surge capability
- **高温焊接保证** High temperature soldering guaranteed:
  250℃/10 秒, 0.375" (9.5mm)引线长度。
  250℃/10 seconds, 0.375" (9.5mm) lead length,
- **引线可承受5 磅 (2.3kg) 拉力。** 5 lbs. (2.3kg) tension

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	SF 31G	SF 32G	SF 33G	SF 34G	SF 35G	SF 36G	SF 38G	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	$I_{F(AV)}$	3.0							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}	125							A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	20							℃/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-50 --- +150							℃

电特性 TA = 25℃ 除非另有规定。

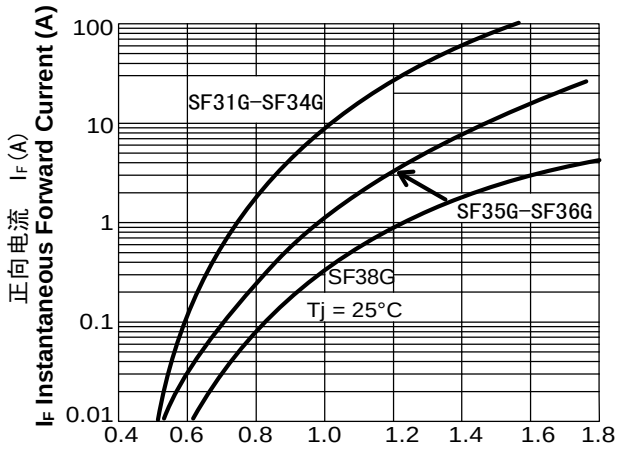
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

		符号 Symbols	SF 31G	SF 32G	SF 33G	SF 34G	SF 35G	SF 36G	SF 38G	单位 Unit
最大正向电压 Maximum forward voltage	I_F = 3.0A	V_F	0.95				1.25		1.7	V
最大反向电流 Maximum reverse current	@TA= 25℃ @TA=125℃	I_R	5.0 150.0							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	95							pF

特性曲线 Characteristic Curves

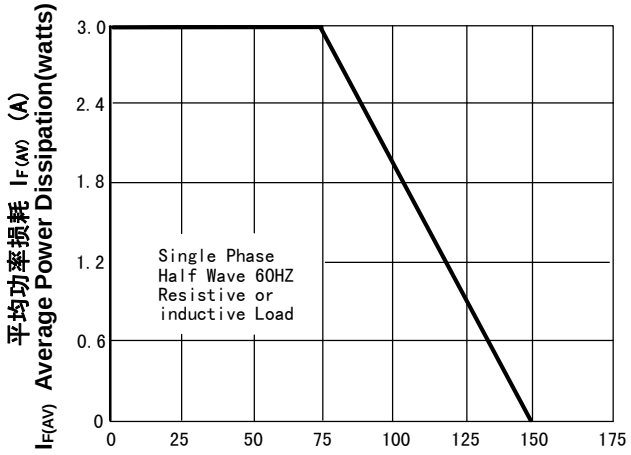
正向特性曲线（典型值）

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线（最大值）

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT