塑封高效率整流二极管

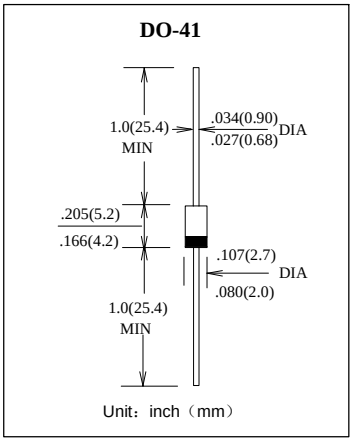
反向电压 50 ---600V

正向电流 1.0 A

Plastic High-Efficiency Rectifiers

Reverse Voltage 50 to 600V

Forward Current 1.0A



特征 Features

- **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 11	SF 12	SF 13	SF 14	SF 15	SF 16	SF 17	SF 18	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	500	600	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	350	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	100	150	200	300	400	500	600	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	1.0								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}	30								A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	65								℃/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-50 --- +150								℃

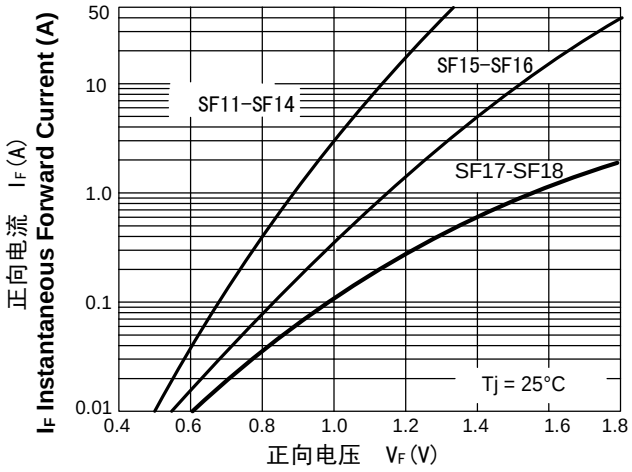
电特性 TA = 25℃ 除非另有规定。

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

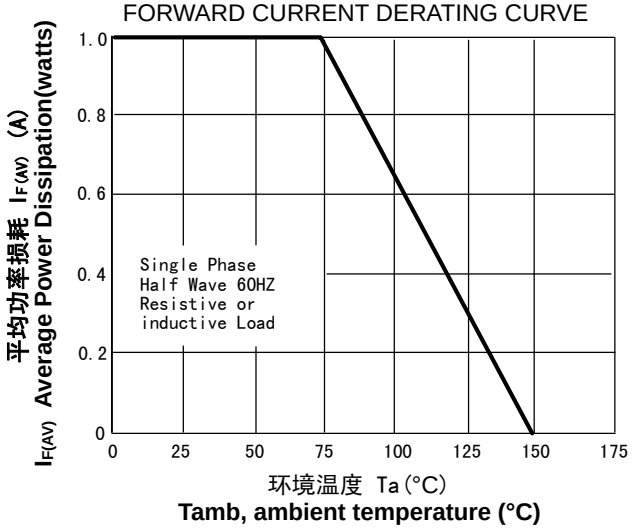
		符号 Symbols	SF 11	SF 12	SF 13	SF 14	SF 15	SF 16	SF 17	SF 18	单位 Unit
最大正向电压 Maximum forward voltage	I_F = 1.0A	V_F	0.95				1.25		1.7		V
最大反向电流 Maximum reverse current	@TA= 25℃ @TA=100℃	I_R	5.0 100.0								μA
最大反向恢复时间 MAX. Reverse Recovery Time	I_F=0.5A I_R=1.0A I_{RR}=0.25A	trr	35								nS
典型结电容 Type junction capacitance	V_R = 4.0V, f = 1MHz	C_j	50								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