SIYU®

BYV27-50..... BYV27-600

塑封高效率整流二极管

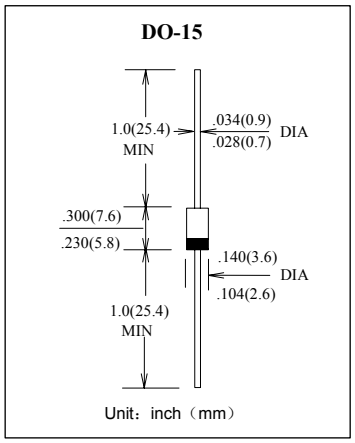
反向电压 50 --- 600 V

正向电流 1.1 --- 1.3 A

Plastic High-Efficiency Rectifier

Reverse Voltage 50 to 600V

Forward Current 1.1 to 1.3A



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	BYV27 -50	BYV27 -100	BYV27 -150	BYV27 -200	BYV27 -300	BYV27 -400	BYV27 -500	BYV27 -600	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	$I_{F(AV)}$	1.3				1.25		1.1		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						40		A
最大反向峰值电流 @TA=75℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	30								μA
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	-50 --- +150								℃

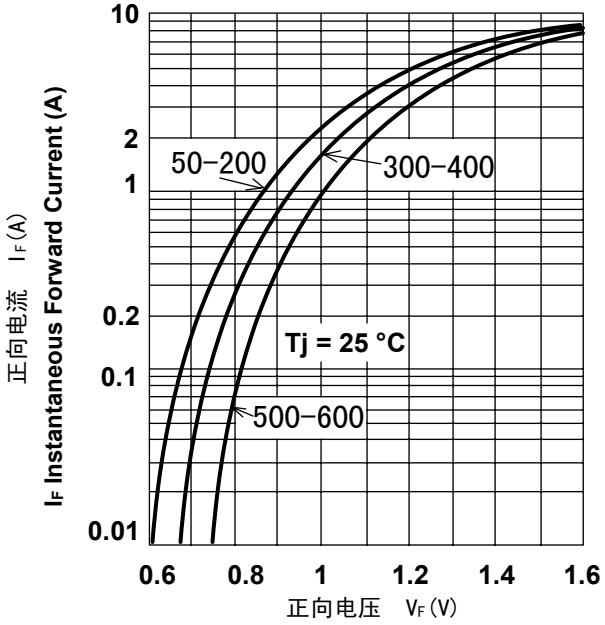
电特性 TA = 25℃ 除非另有规定。

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

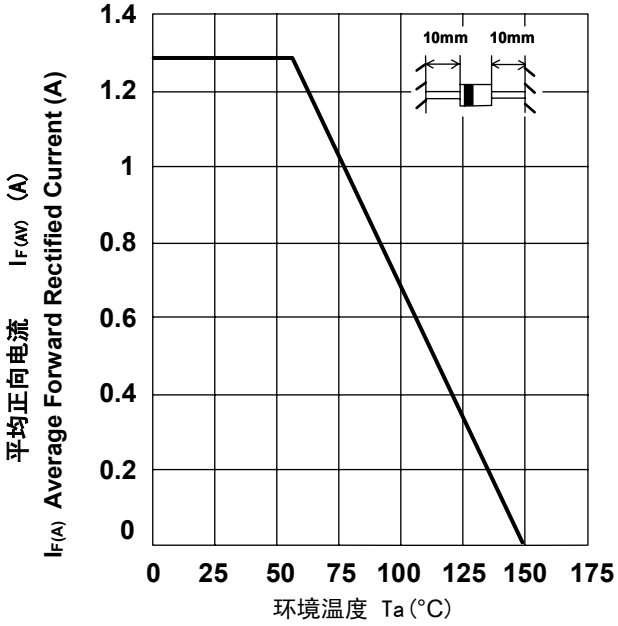
		符号 Symbols	BYV27 -50	BYV27 -100	BYV27 -150	BYV27 -200	BYV27 -300	BYV27 -400	BYV27 -500	BYV27 -600	单位 Unit
最大正向电压 Maximum forward voltage	I_F =2.0A	V_F	0.98				1.05		1.25		V
最大反向电流 Maximum reverse current	TA= 25℃ TA=100℃	I_R	5.0 150								μA
最大反向恢复时间 MAX. Reverse Recovery Time	I_F=0.5A I_R=1.0A I_{RR}=0.25A	trr	35				50				nS
典型结电容 Type junction capacitance	V_R =0V, f = 1MHz	C_j	100				80		65		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