



35SQ045

主要参数 MAIN CHARACTERISTICS

| | |
|------------------|-------------------------------|
| $I_{F(AV)}$ | 35A |
| V_{RRM} | 45 V |
| T_{Jmax} | 200 °C |
| IFSM | 400 A |
| $V_{F(max)@20A}$ | 0.46V (@ $T_j=125^{\circ}C$) |

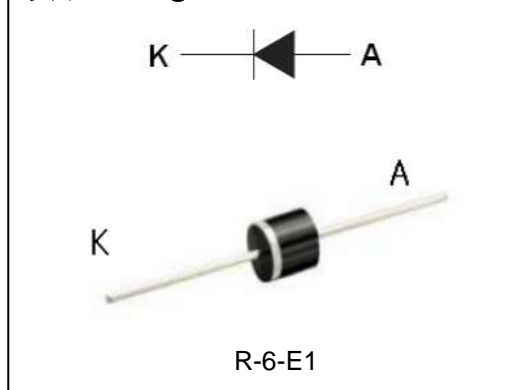
用途

- 低压、高频整流
- 低压续流电路和保护电路
- 太阳能电池接线盒旁路二极管

APPLICATIONS

- Low voltage, high frequency rectifier
- Freewheeling circuit and protection circuit of low voltage
- solar cell junction box as a bypass diode

封装 Package



产品特性

- 低功耗，高效率
- 良好的高温特性
- 高可靠性
- 环保（RoHS）产品

FEATURES

- Low power loss, high efficiency
- High Operating Junction Temperature
- High reliability
- RoHS product

订货信息 ORDER MESSAGE

| 订货型号 Order codes | | | | 印记 Marking | 封装 Package |
|-----------------------|-----------------------------|------------------------|-----------------------------|------------|------------|
| 有卤-条管 Halogen-Tube | 有卤-条管 Halogen Free -Tube | 有卤-编带 Halogen-Braid | 无卤-编带 Halogen Free-Braid | | |
| N/A | N/A | 35SQ045-DR-A | N/A | 35SQ045 | R-6-E1 |



绝对最大额定值 ABSOLUTE RATINGS ($T_C=25^\circ\text{C}$)

| 项 目 Parameter | 符 号 Symbol | 数 值 Value | 单 位 Unit |
|---|---------------|--------------|------------------|
| 最大反向重复峰值电压 Repetitive peak reverse voltage | V_{RRM} | 45 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 45 | V |
| 正向平均整流电流 Average Rectified Forward Current | $I_{F(AV)}$ | 35 | A |
| 正向峰值浪涌电流 Surge non repetitive forward current (额定负载 10ms 半正弦波) 10 ms single half-sine-wave | I_{FSM} | 400 | A |
| 最高结温 Maximum junction temperature | T_j | -55~200 | $^\circ\text{C}$ |
| 工作结温和储存温度范围 Storage temperature range | T_{STG} | -55~+150 | $^\circ\text{C}$ |

电特性 ELECTRICAL CHARACTERISTICS

| 项 目 Parameter | 测试条件 Tests conditions | | 典型值 Value(typ) | 最大值 Value(max) | 单 位 Unit |
|------------------|---------------------------|--------------------|-------------------|-------------------|---------------|
| I_R | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | 25 | 500 | μA |
| | $T_j = 100^\circ\text{C}$ | $V_R = V_{RRM}$ | 5 | 50 | mA |
| V_F | $T_j = 25^\circ\text{C}$ | $I_F = 20\text{A}$ | 0.46 | 0.50 | V |
| | $T_j = 125^\circ\text{C}$ | $I_F = 20\text{A}$ | 0.41 | 0.46 | |

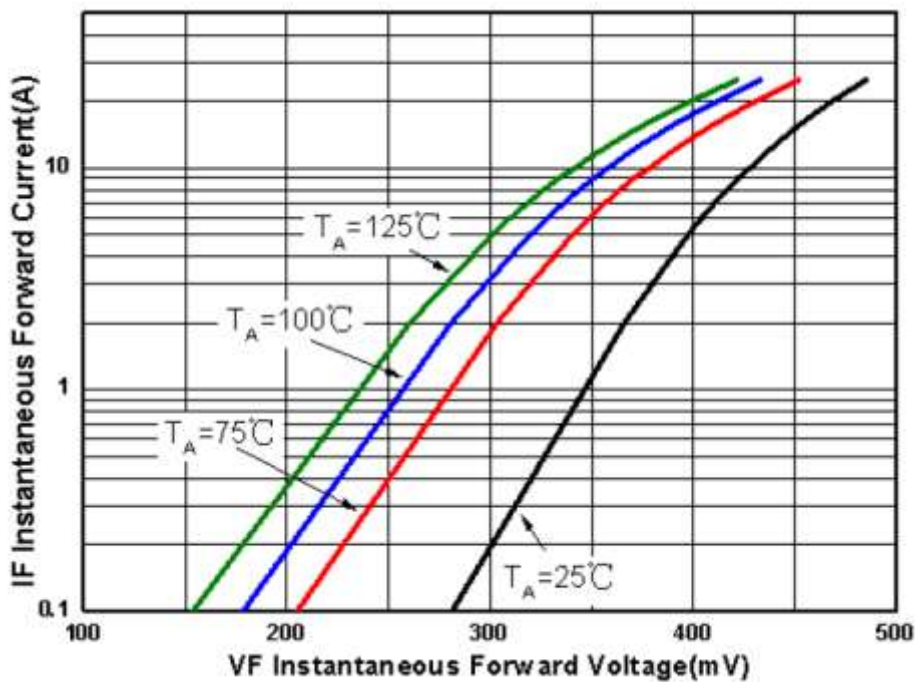
热特性 THERMAL CHARACTERISTICS

| 项 目 Parameter | 符 号 Symbol | 典型值 Typical | 单 位 Unit |
|--|---------------|----------------|---------------------------|
| 结到管壳的热阻 Thermal resistance from junction to case | $R_{th(j-c)}$ | 2.5 | $^\circ\text{C}/\text{W}$ |

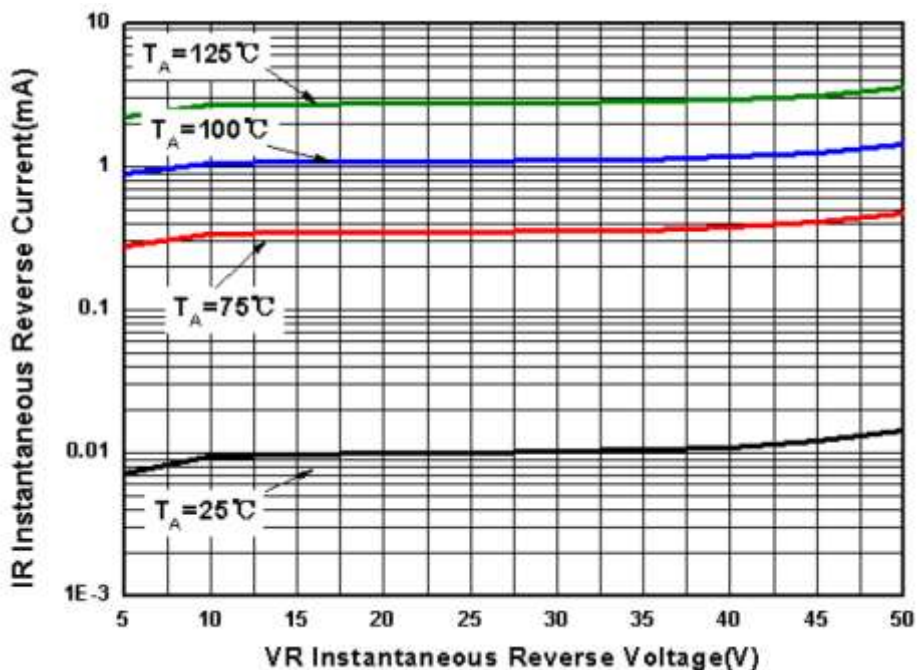


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

IF vs VF



IR vs VR

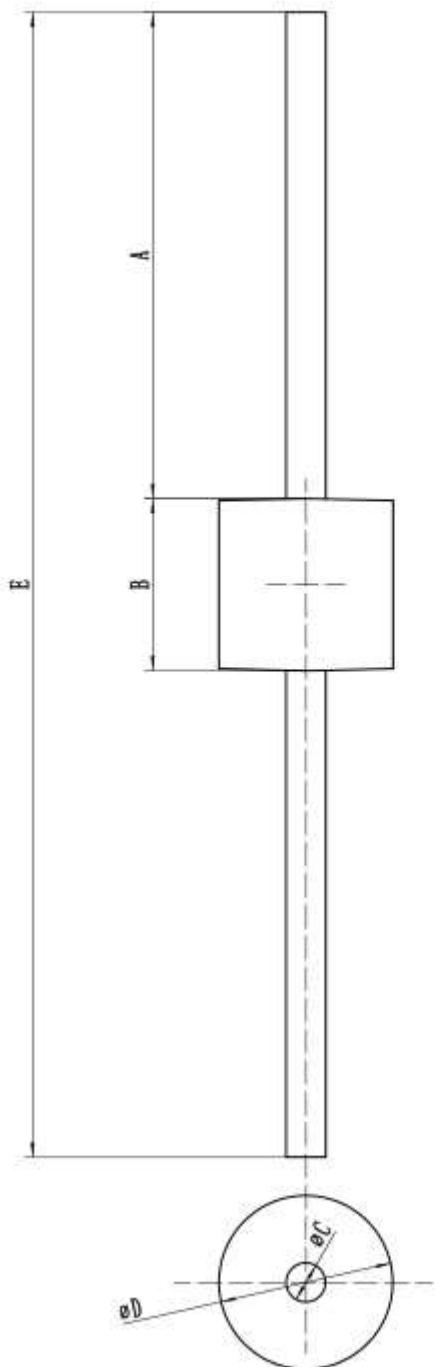




外形尺寸PACKAGE MECHANICAL DATA

R-6-E1

单位 Unit : mm



| 符号 | Min | Max |
|--------|------|------|
| symbol | mm | mm |
| A | 23.6 | 25.6 |
| B | 8.5 | 9.1 |
| C | 1.8 | 2.1 |
| D | 8.5 | 9.1 |
| E | 55.7 | 60.3 |



注意事项

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