RiXin®

ERD07-13/ERD07-15

Plastic Fast Recover Rectifier

Reverse Voltage 1300 to 1500V

Forward Current 1.5 A

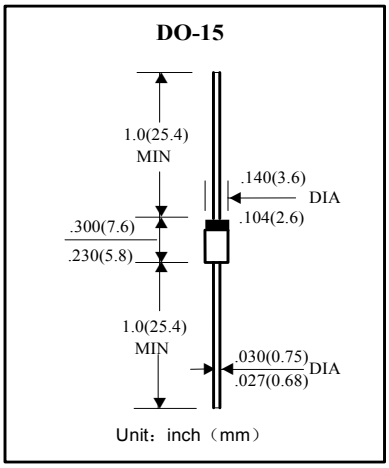
塑封快恢复整流二极管

反向电压 1300 --- 1500 V

正向电流 1.5 A

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

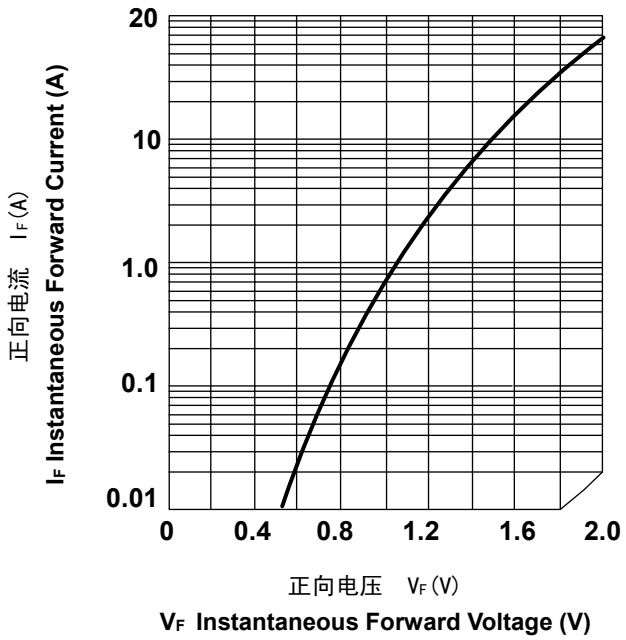
极限值和温度特性 TA = 25℃ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

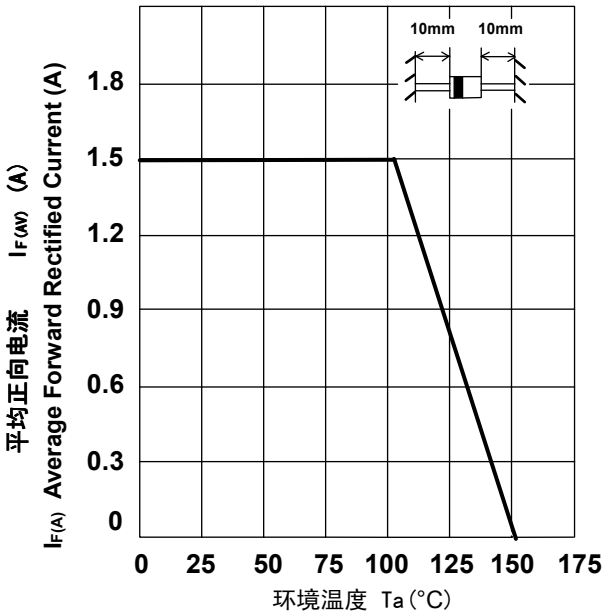
	符号 Symbols	ERD07-13	ERD07-15	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	1300	1500	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	910	1050	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	1300	1500	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	1.5		A
峰值正向浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	50		A
最大反向峰值电流 @TA = 75℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	30		μA
最大正向电压 I_F = 4.0A Maximum forward voltage	V_F	1.2		V
最大反向电流 TA= 25℃ TA=100℃ Maximum reverse current	I_R	10 100		μA
最大反向恢复时间 I_F=0.5A I_R=1.0A I_{RR}=0.25A MAX. Reverse Recovery Time	trr	300		nS
典型结电容 V_R = 4.0V, f = 1MHz Type junction capacitance	Cj	45		pF
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		℃

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