

塑封快恢复整流二极管

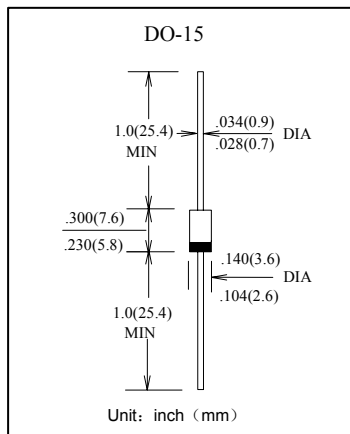
反向电压 50 --- 1000 V

正向电流 1.5 A

Plastic Fast Recover Rectifier

Reverse Voltage 50 to 1000V

Forward Current 1.5A



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°C/10 秒, 0.375" (9.5mm) 引线长度。
250°C/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°C 除非另有规定。

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

	符号 Symbols	PR15 01/S	PR15 02/S	PR15 03/S	PR15 04/S	PR15 05/S	PR15 06/S	PR15 07/S	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	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°C Maximum peak reverse current full cycle	$I_{R(AV)}$	30							μA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	45							°C/W
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-50 --- +150							°C

电特性 TA = 25°C 除非另有规定。

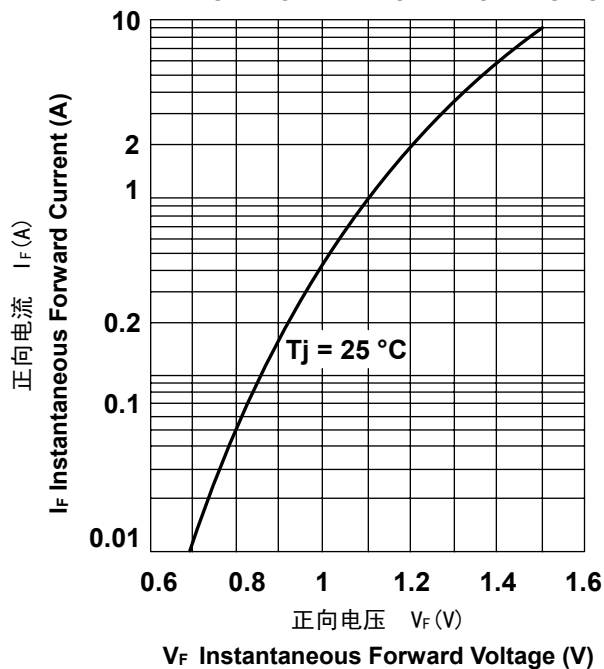
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	符号 Symbols	PR15 01/S	PR15 02/S	PR15 03/S	PR15 04/S	PR15 05/S	PR15 06/S	PR15 07/S	单位 Unit
最大正向电压 Maximum forward voltage $I_F = 1.5A$	V_F	1.2							V
最大反向电流 Maximum reverse current $T_A = 25^\circ C$ $T_A = 100^\circ C$	I_R	5.0 100							μA
最大反向恢复时间 MAX. Reverse Recovery Time $I_F = 0.5A$ $I_R = 1.0A$ $I_{RR} = 0.25A$	t_{rr}	150					300		nS
典型结电容 Type junction capacitance $V_R = 4.0V, f = 1MHz$	C_j	20					15		pF

特性曲线 Characteristic Curves

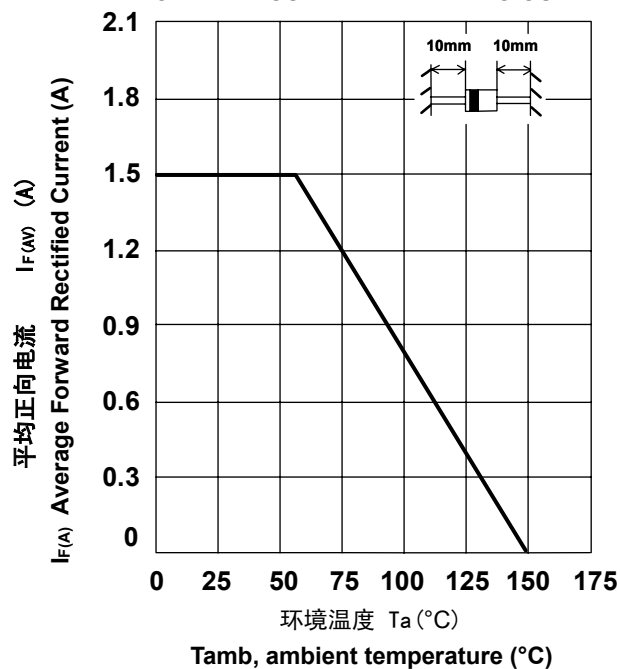
正向特性曲线（典型值）

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