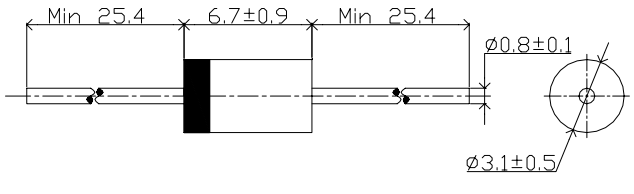
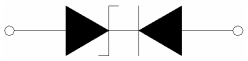
功率缓冲二极管 Power Snubber Diode

Package Dimensions

Case:D015





Unit:mm

1. 特征 Features

- 小型化，高可靠性
  Miniaturization，High Reliability
- 替代传统的 RCD 缓冲电路
  Substitution traditional RCD snubber circuit
- 钳位电压稳定
  Steady Clamping voltage
- 高温焊接保证
  High temperature soldering guaranteed
  260℃/10 秒，9.5mm 引线长度
  260℃/10s，9.5mm lead length
- 引线和管体皆符合 RoHS 标准
  Lead and body according with RoHS standard

2. 机械数据 Mechanical Data

极性标识：FR 阴极端用色环标识
Polarity：Color band denotes FR cathode end

3. 极限值和温度特性 TA = 25℃ 除非另有规定

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

项目 Item	参数 Symbol	条件 Conditions	ZD	FR	单位 Unit
最大反向功率损耗 Maximum surge reverse power	PRSM	10/1000us Non-repetitive	200	-	W
最大反向浪涌电流 Maximum surge reverse Current	IRSM	10/1000us Non-repetitive	0.7	-	A
最大反向电压 Maximum reverse voltage	VRM	-	170	600	V
储存温度 Storage temperature	Tstg	-	-40~150		℃
最高结温 Operating junction temperature	Tj	-	150		℃

电特性 TA = 25℃ 除非另有规定。

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

转折电压 Breakdowm voltage	VBR	IT=1mA	MIN.185 TYP.200 MAX.215	- - -	V
钳位电压 Clamping voltage	Vcl	Ipp=0.7A	MAX.300	-	V
漏电流 Leakage current	IR	VR=170V	MAX.5.0	-	uA
		VR=600V	-	MAX.5.0	
最大反向恢复时间 Max Reverse Recovery Time	TRR	IF=0.5A IR=1.0A IRR=0.25A		MAX.250	ns
典型热阻 Typical thermal resistance	$R_{\theta JL}$	结到引线 Junction to lead	MAX.17	MAX.17	℃/W

4.特性曲线 Characteristics Curves

图 1-转折电压温度特性曲线
Fig.-Breakdown Voltage & Temperature Characteristics Curves

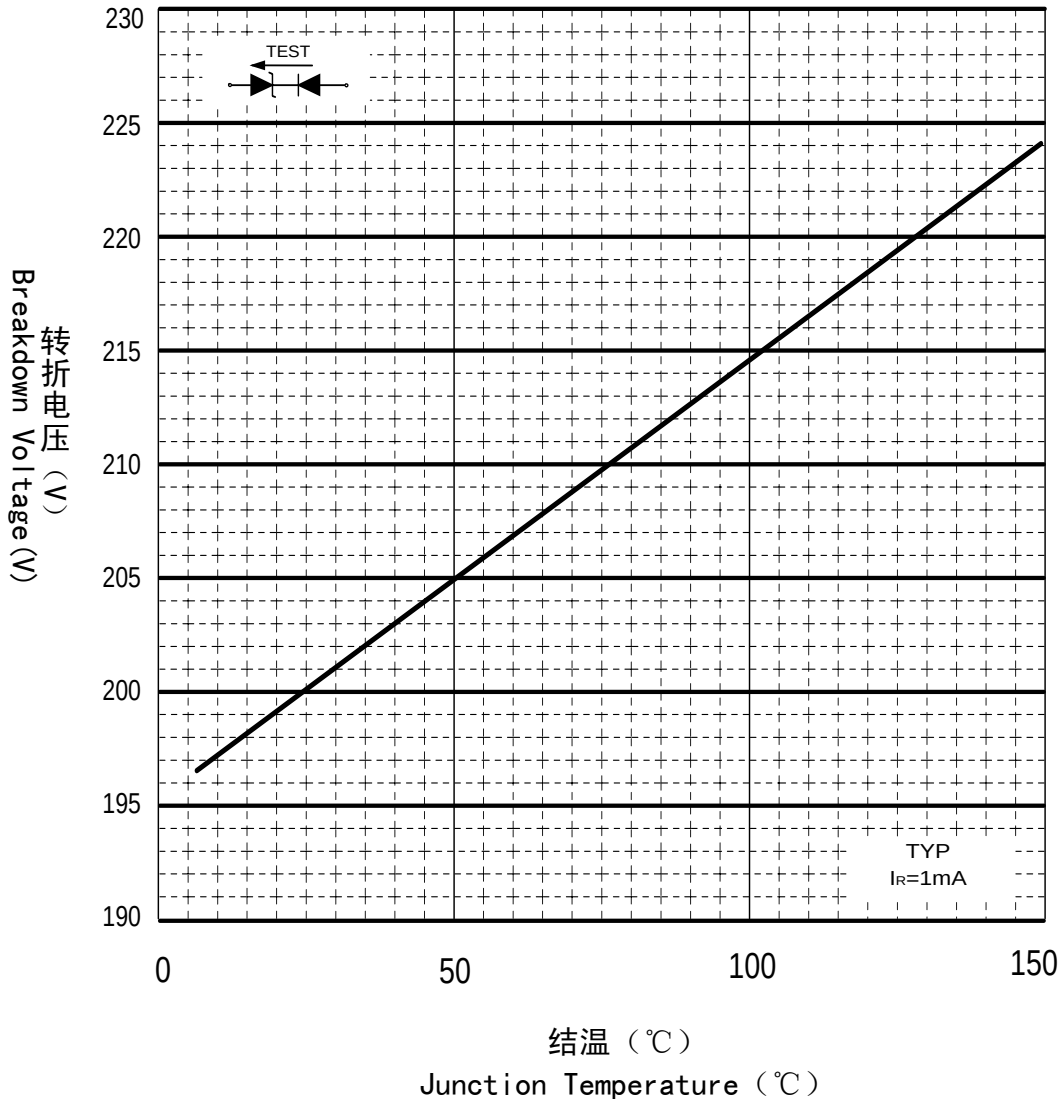


图 2- FR 漏电流温度曲线
Fig.2-FR Leakage current & Temperature Characteristics Curves

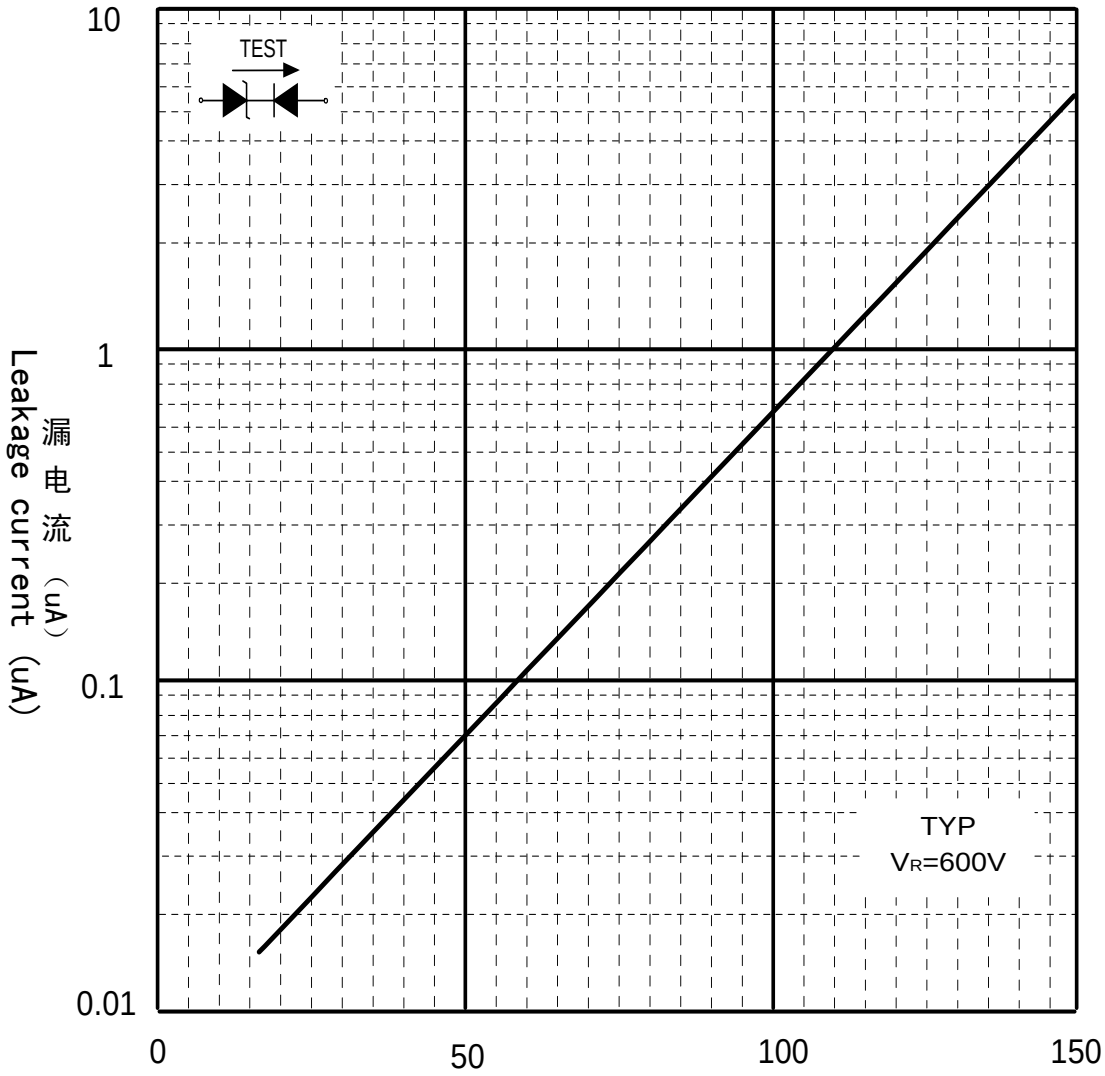
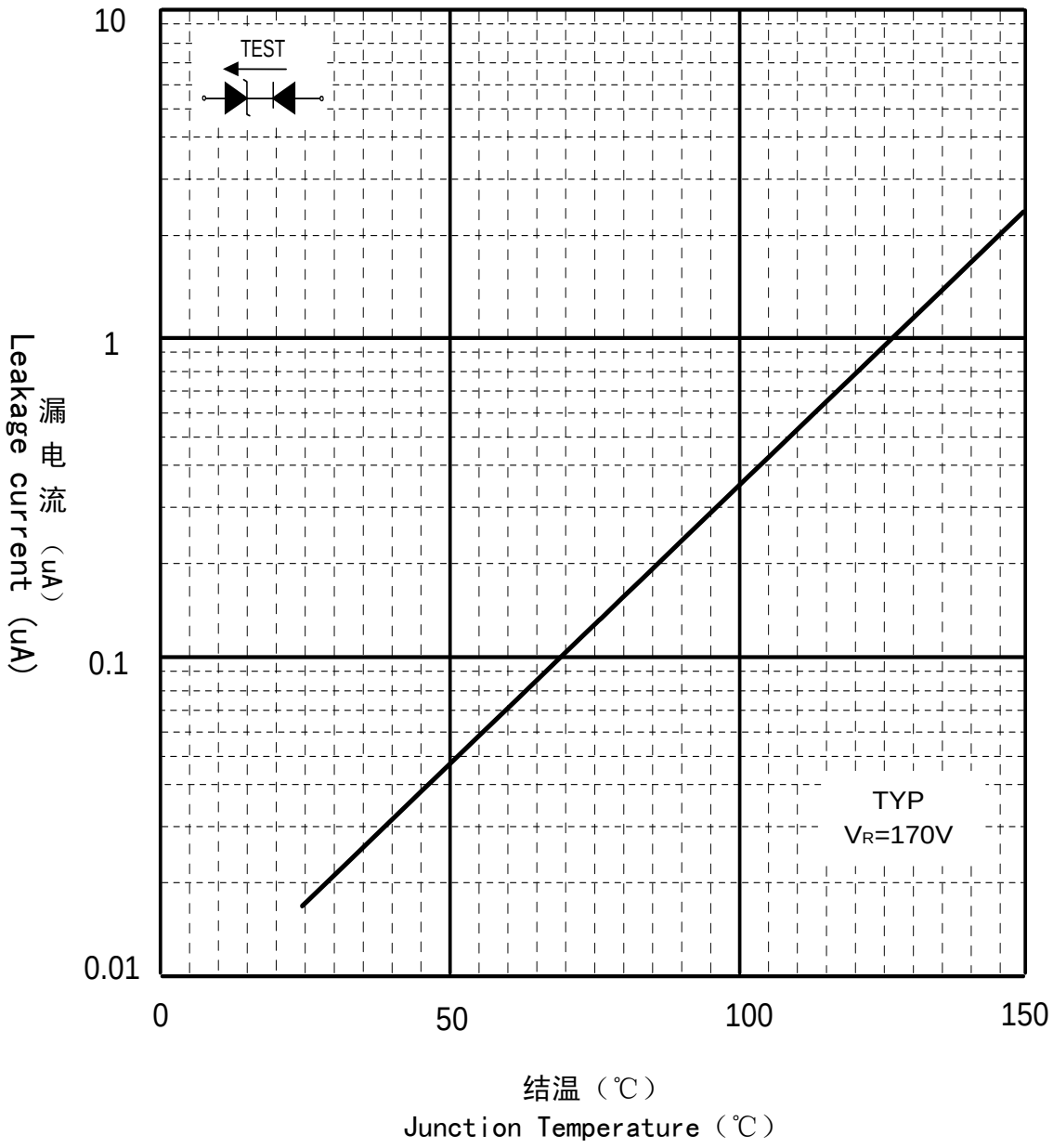


图 3- Zener 漏电流温度曲线
Fig.3-Zener Leakage current & Temperature Characteristics Curves



5. 典型用途　　Typical Application

应用于反激式电源的缓冲电路　　Applied in fly back power's snubber circuit