

描述 / Descriptions

TO-252 塑封封装 肖特基二极管。

Schottky Diode in a TO-252 Plastic Package.

特征 / Features

低正向压降，低功耗损失，高效率操作。

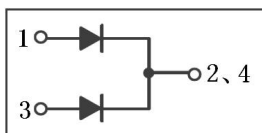
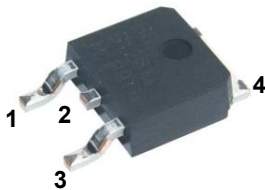
Low forward voltage drop, low power losses, High efficiency operation.

用途 / Applications

用于高频率逆变器，开关电源，续流二极管，OR-ing 二极管，DC-DC 转换器和电池反向保护。

For use in high frequency inverters, switching power supplies, freewheeling diodes,

OR-ing diode, dc-to-dc converters and reverse battery protection.

内部等效电路 / Equivalent Circuit**引脚排列 / Pinning**

PIN1 : Anode

PIN 2、 4 : Cathode

PIN 3 : Anode

放大及印章代码 / h_{FE} Classifications & Marking

见印章说明。 See Marking Instructions.


极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Typical Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	°C/W
Storage Temperature Range	T_{stg}	-40~150	°C

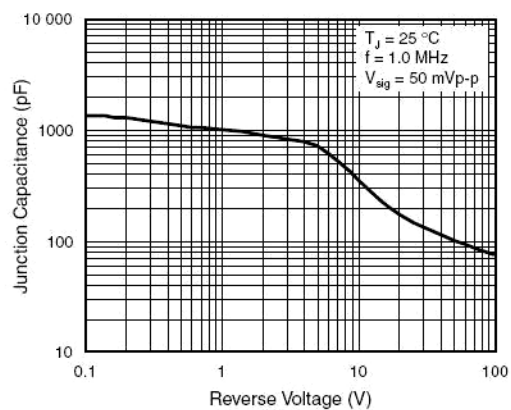
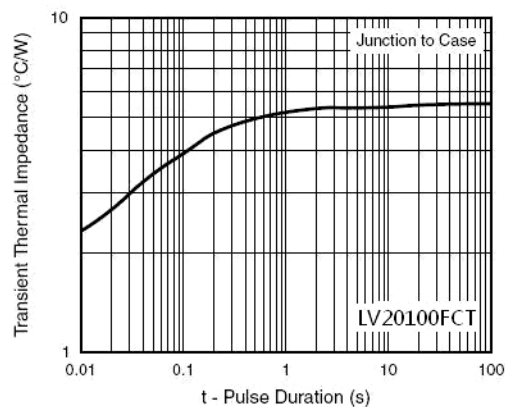
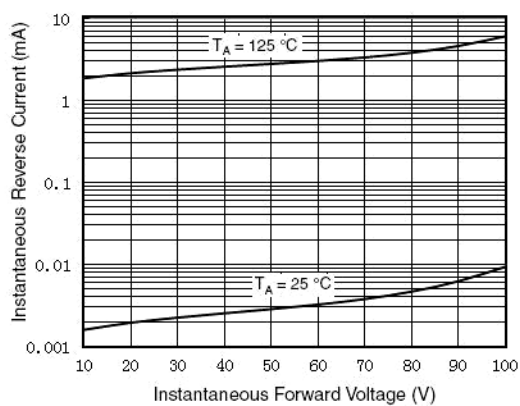
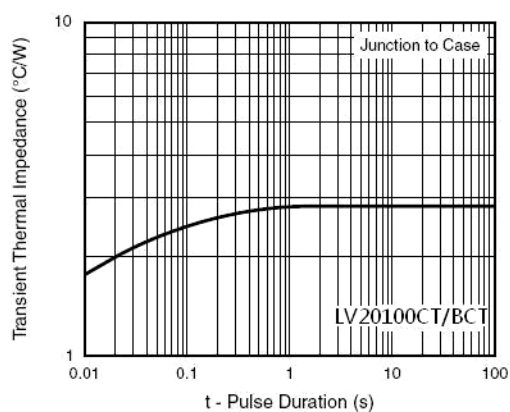
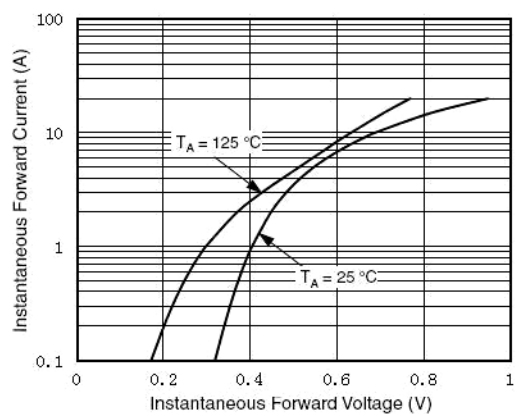
电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Reverse Voltage	V_{BR}	$I_R=100mA$	100			V
Forward Voltage	V_F	$I_F=5A$ $T_a=25^{\circ}C$		0.55	0.65	V
		$I_F=10A$ $T_a=25^{\circ}C$		0.65	0.79	V
		$I_F=5A$ $T_a=125^{\circ}C$		0.50	0.60	V
		$I_F=10A$ $T_a=125^{\circ}C$		0.62	0.68	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R=100V$ $T_a=25^{\circ}C$			100	uA
		$V_R=100V$ $T_a=125^{\circ}C$		10	25	mA

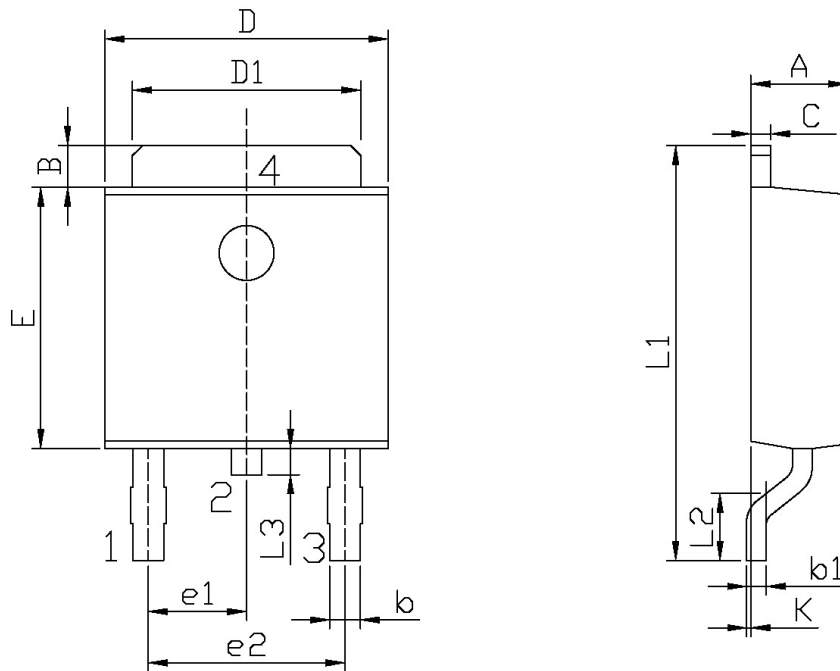
注/Notes:

1. 使用极短的测试时间,以尽量减少自热效应。/Short duration pulse test used to minimize self-heating effect.
2. 除非特别注明,数值为一个芯片的参数。/ Unless otherwise noted, values for the parameters of a single chip

电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

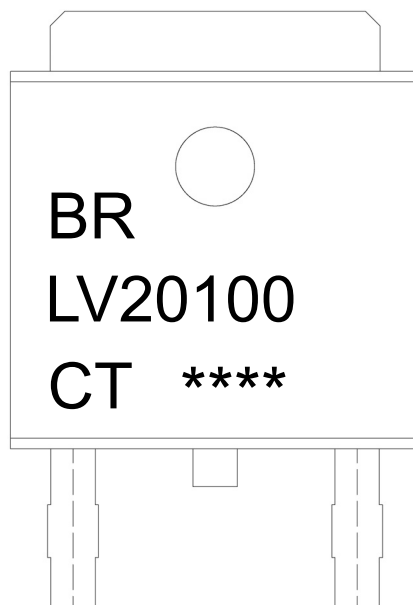


单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	2.20	2.40	E	5.95	6.25
B	0.95	1.25	e1	2.24	2.34
b	0.50	0.70	e2	4.43	4.73
b1	0.45	0.55	L1	9.45	9.95
C	0.45	0.55	L2	1.25	1.75
D	6.45	6.75	L3	0.60	0.90
D1	5.10	5.50	K	0.00	0.10

TQ-252

印章说明 / Marking Instructions



说明：

BR：为公司代码

LV20100：为型号代码

CT：为内部结构

****：为生产批号代码，随生产批号变化。

Note:

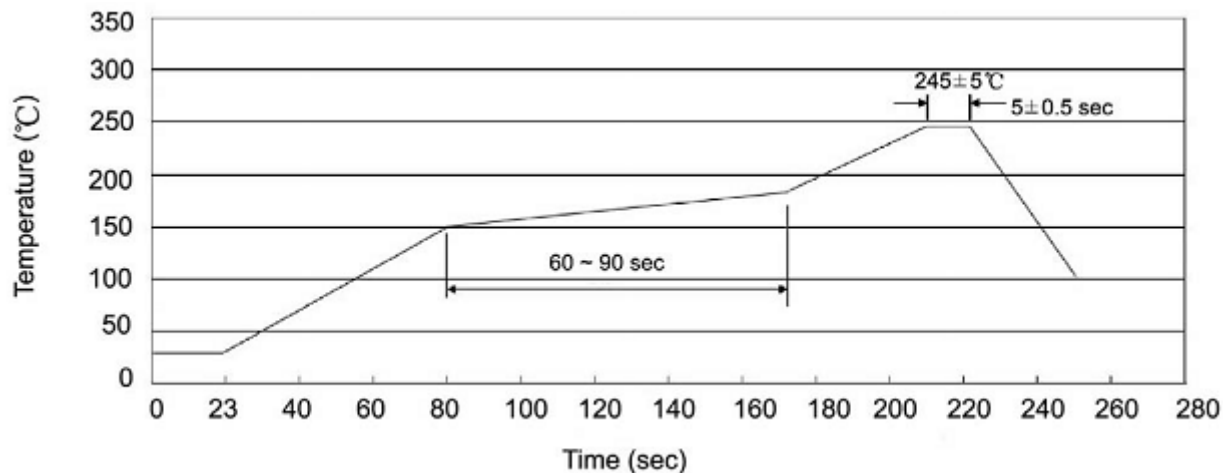
BR: Company Code

LV20100: Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 25~150°C，时间 60~90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	5	25,000	13" ×16	360×360×50	385×257×392

套管包装 / TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

使用说明 / Notices