

/ Descriptions

TO-3P

Schottky Barrier Diode in a TO-3P Plastic Package.

/ Features

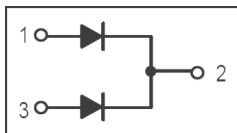
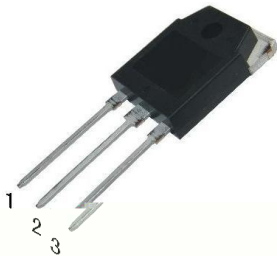
Low forward voltage drop, low power losses, High efficiency operation.

/ Applications

OR-ing

DC-DC

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

/ Equivalent Circuit**/ Pinning**

PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RM} V_{RWM} V_{DC}	150	V
RMS Reverse Voltage	V_{RMS}	105	V
Average forward current	$I_{F(AV)}$	2 15	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	250	A
Thermal Resistance Junction to Ambient case	$R_{\theta Jc}$	4.6	/W
Operating and Storage Temperature Range	T_j T_{stg}	-40 +150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R=1mA(Ta=25)$	150			V
Forward Voltage	V_F	$I_F=5A(Ta=25)$		0.69	0.75	V
		$I_F=10A(Ta=25)$		0.76	0.85	V
		$I_F=15A(Ta=25)$		0.81	0.90	V
		$I_F=5A(Ta=125)$		0.55		V
		$I_F=10A(Ta=125)$		0.62		V
		$I_F=15A(Ta=125)$		0.67	0.75	V
Instantaneous Reverse current (Note 1)	I_R Note 1	$V_R=150V(Ta=25)$		4	20	μA
		$V_R=150V(Ta=125)$		5	10	mA

/Notes

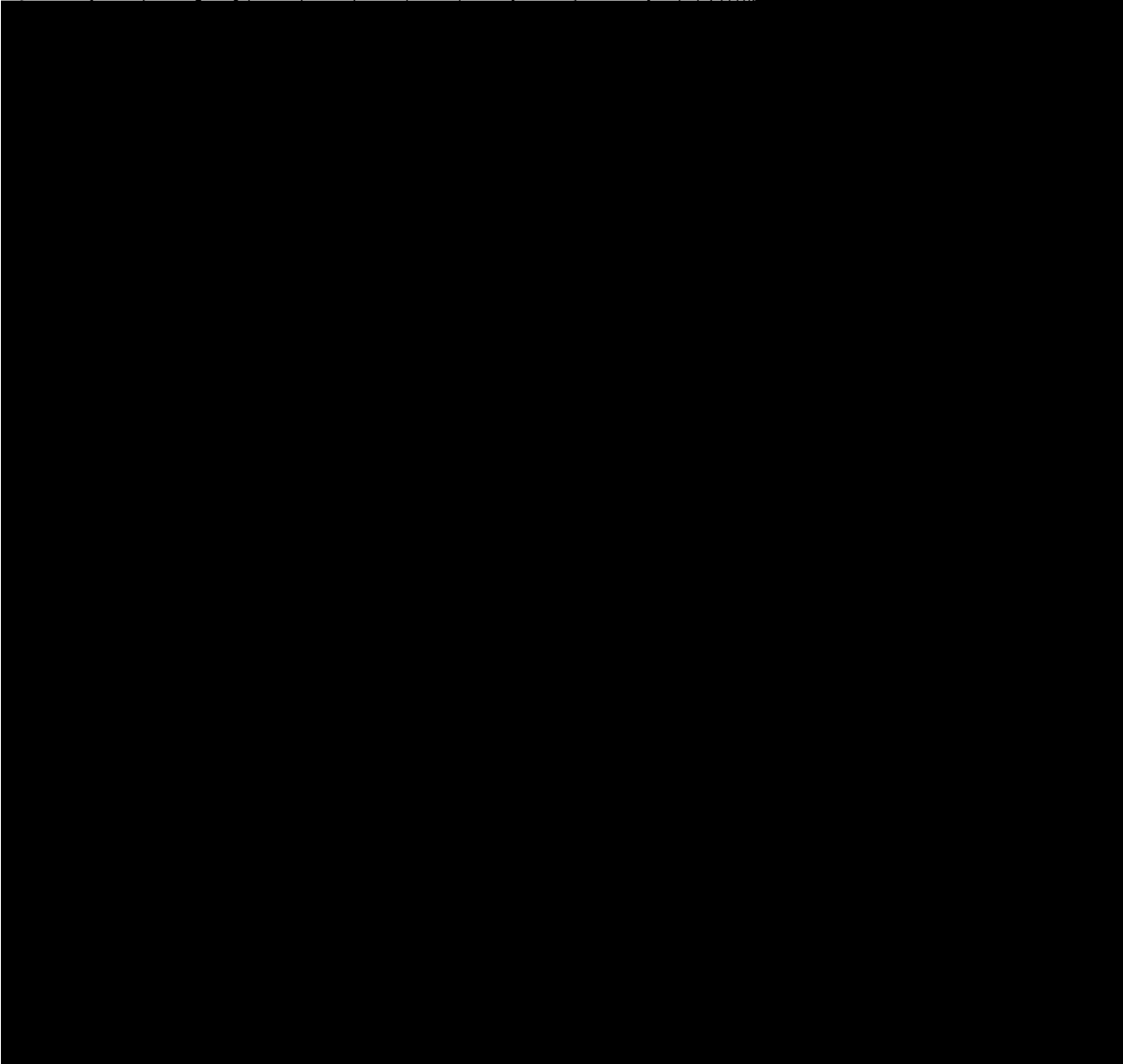
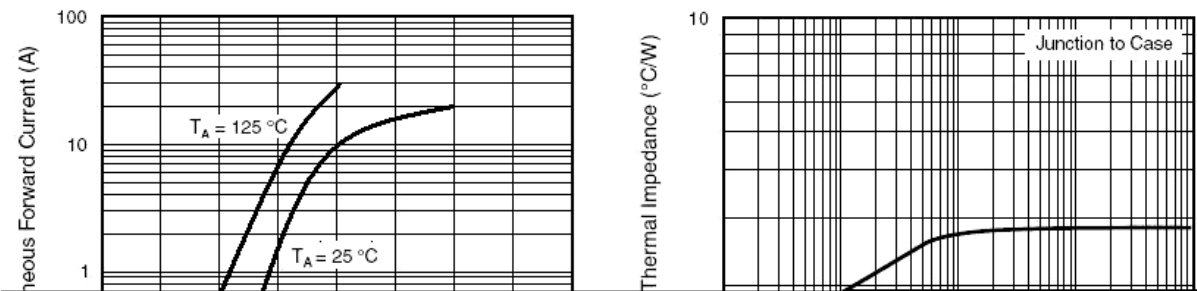
1.
effect.

/Short duration pulse test used to minimize self-heating

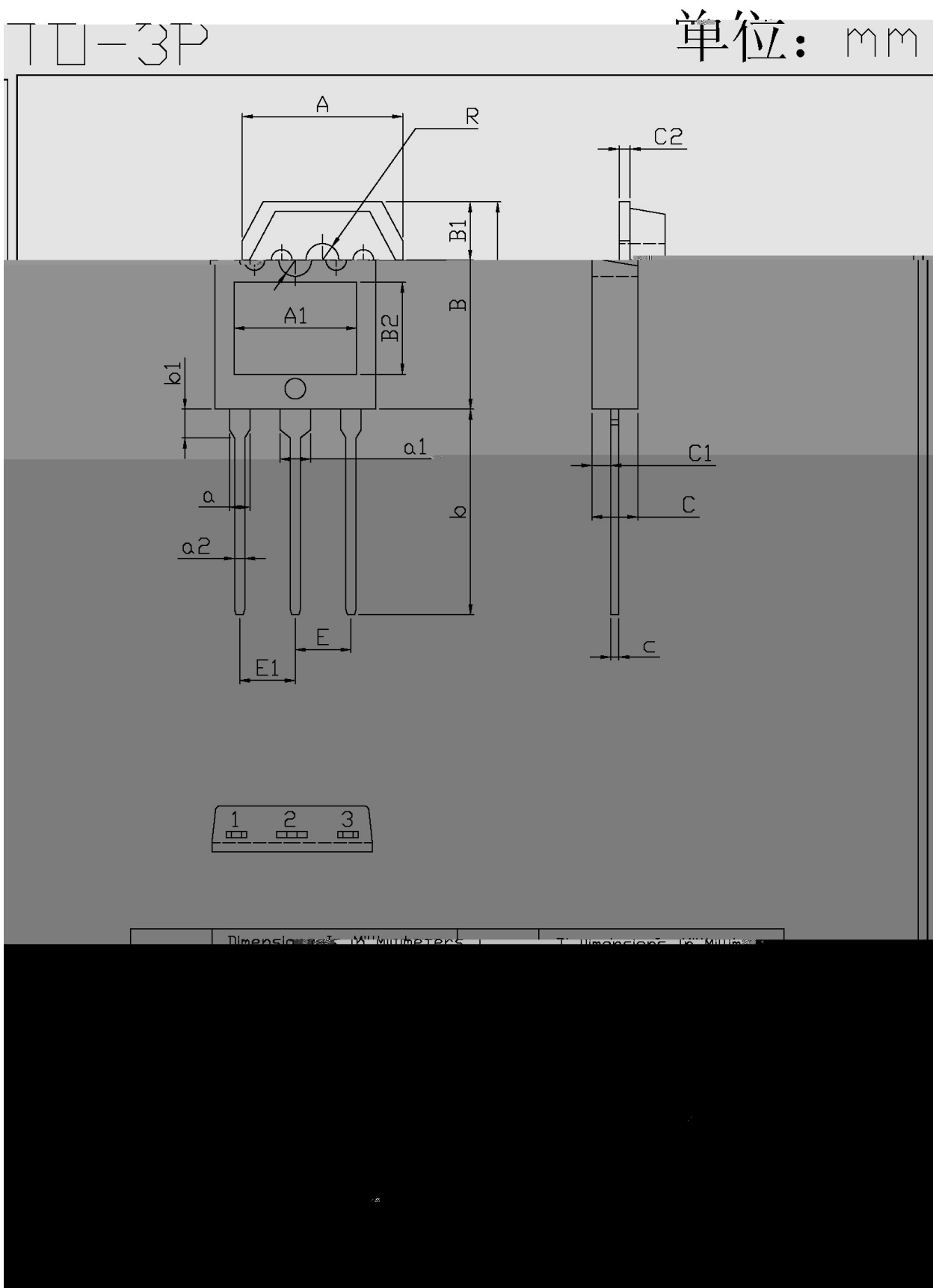
2.
single chip.

/ Unless otherwise noted, values for the parameters of a

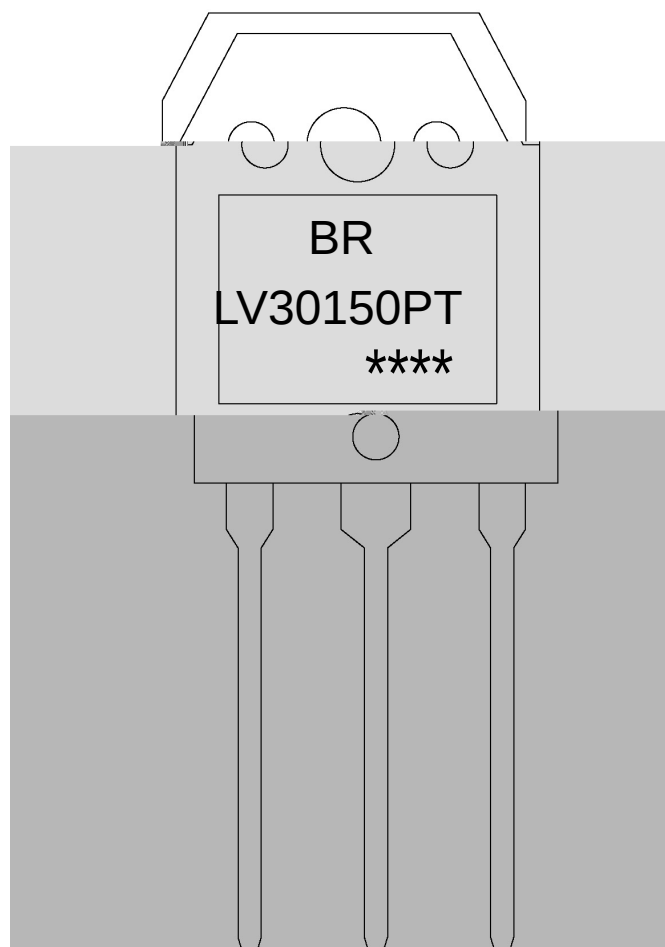
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

LV30150PT

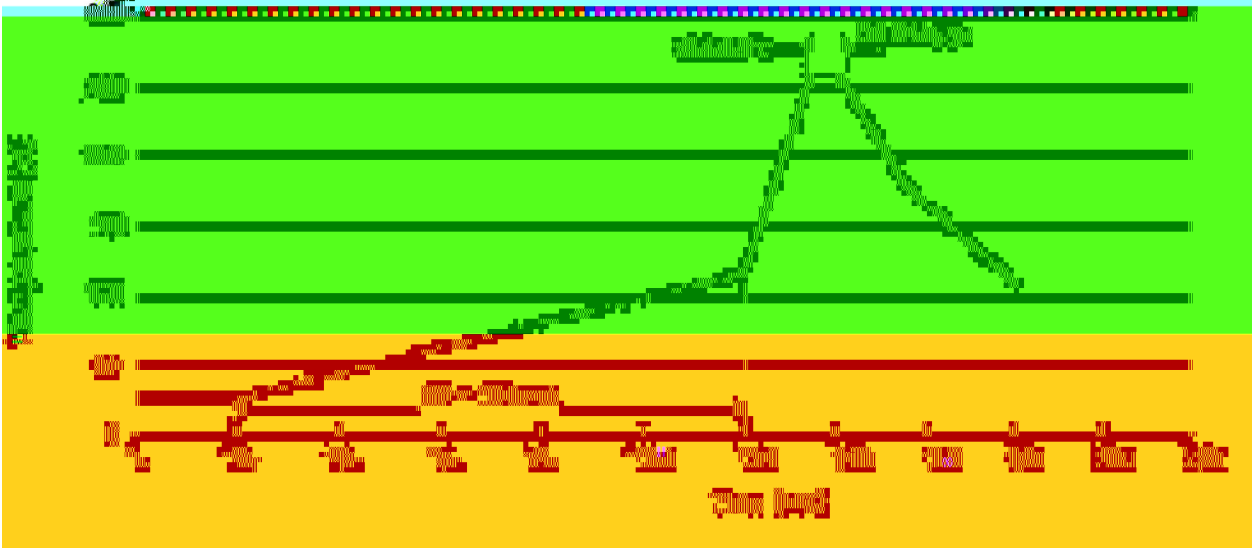
Note:

BR: Company Code.

LV30150PT: Product Type.

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. | |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ 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-3P	30	15	450	5	2250	497.5×46×8	555×164×50	575×290×180

/ Notices