

/ Descriptions

TO-3P

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

/ Features

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

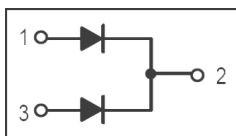
/ Applications

OR-ing

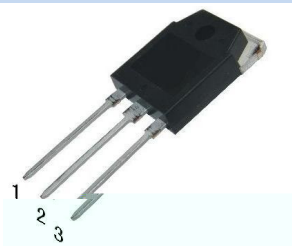
DC-DC

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}	200	V
RMS Reverse Voltage	V_{RMS}	140	V
Average forward current	$I_{F(AV)}$	2 15	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	200	A
Thermal Resistance Junction to Ambient case	R_{JC}	1.4	°C/W
Operating and Storage Temperature Range	T_j T_{stg}	-40 +150	°C

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R=1mA(Ta=25^{\circ}C)$	200			V
Forward Voltage	V_F	$I_F=5A(Ta=25^{\circ}C)$		0.73	0.85	V
		$I_F=10A(Ta=25^{\circ}C)$		0.80	0.95	V
		$I_F=15A(Ta=25^{\circ}C)$		0.92	1.15	V
		$I_F=5A(Ta=125^{\circ}C)$		0.58		V
		$I_F=10A(Ta=125^{\circ}C)$		0.66		V
		$I_F=15A(Ta=125^{\circ}C)$		0.71	0.85	V
Instantaneous Reverse current (Note 1)	I_R Note 1	$V_R=200V(Ta=25^{\circ}C)$		4	20	A
		$V_R=200V(Ta=125^{\circ}C)$		5	10	mA

/Notes

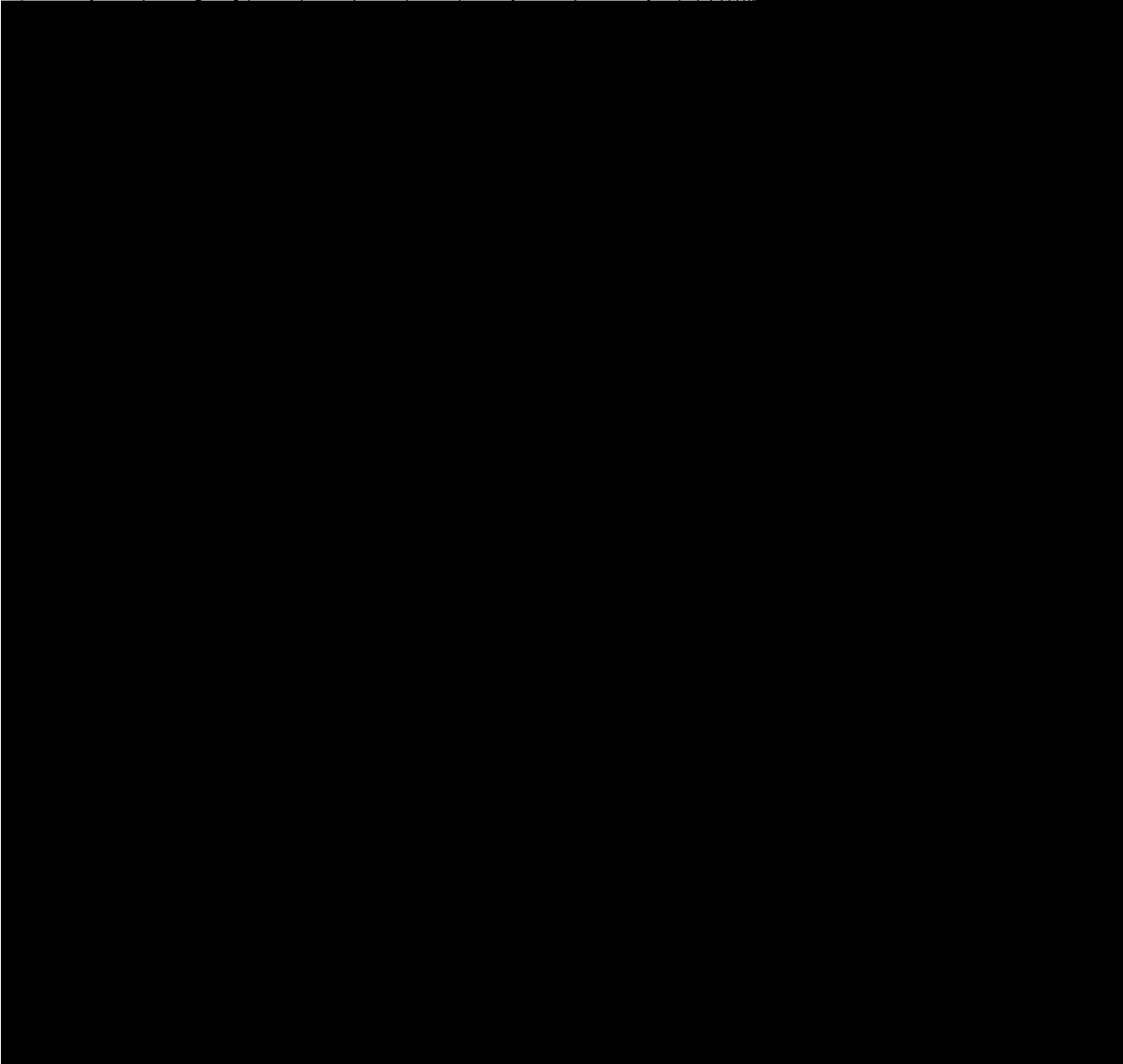
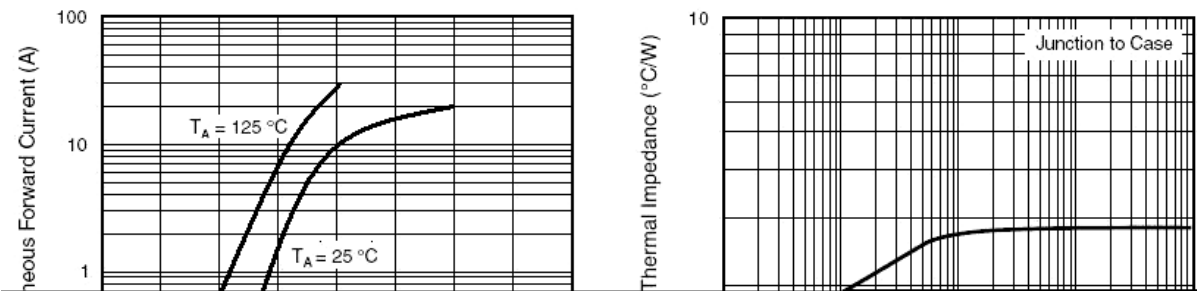
1.
effect.

/Short duration pulse test used to minimize self-heating

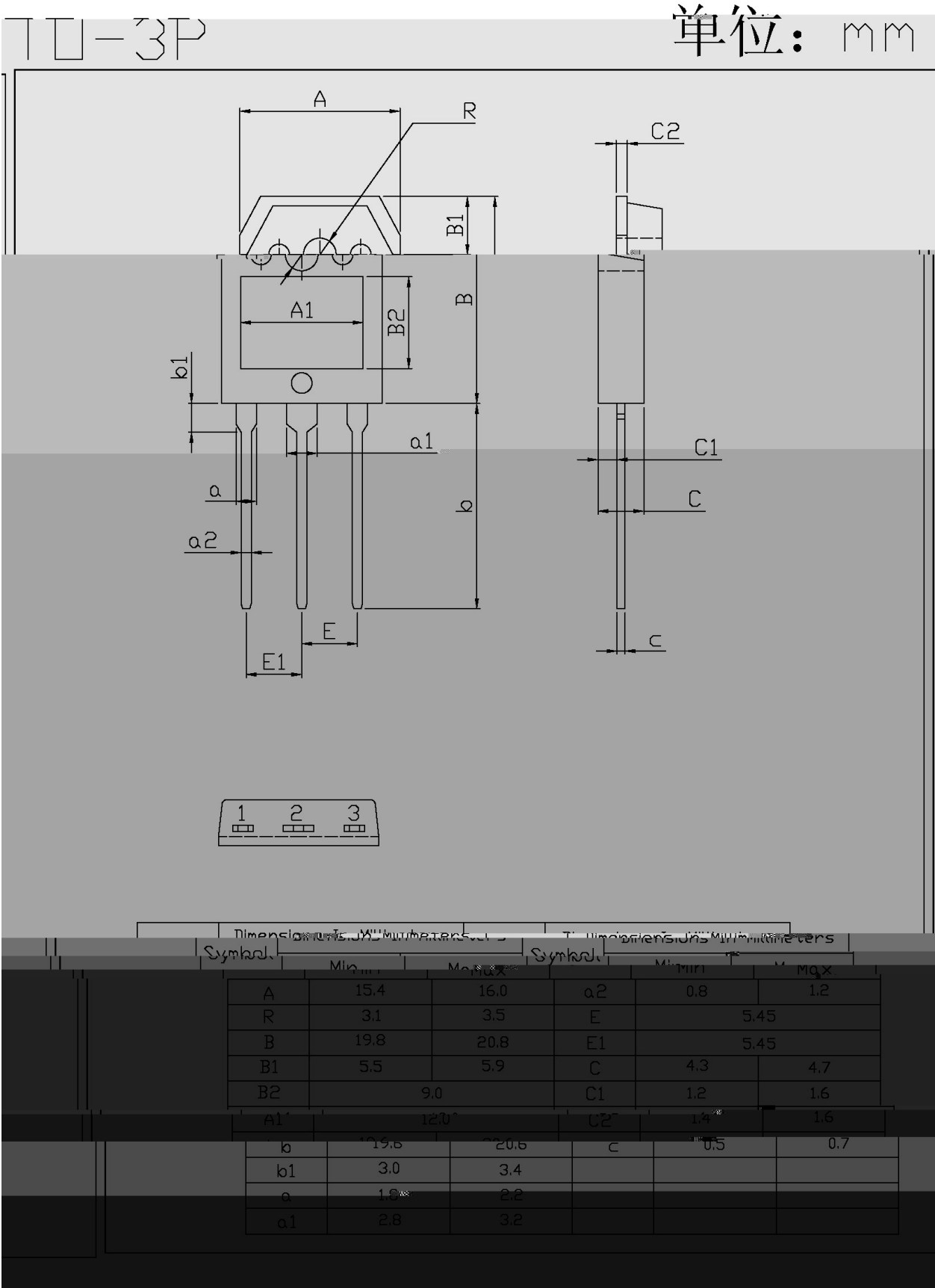
2.
single chip.

/ Unless otherwise noted, values for the parameters of a

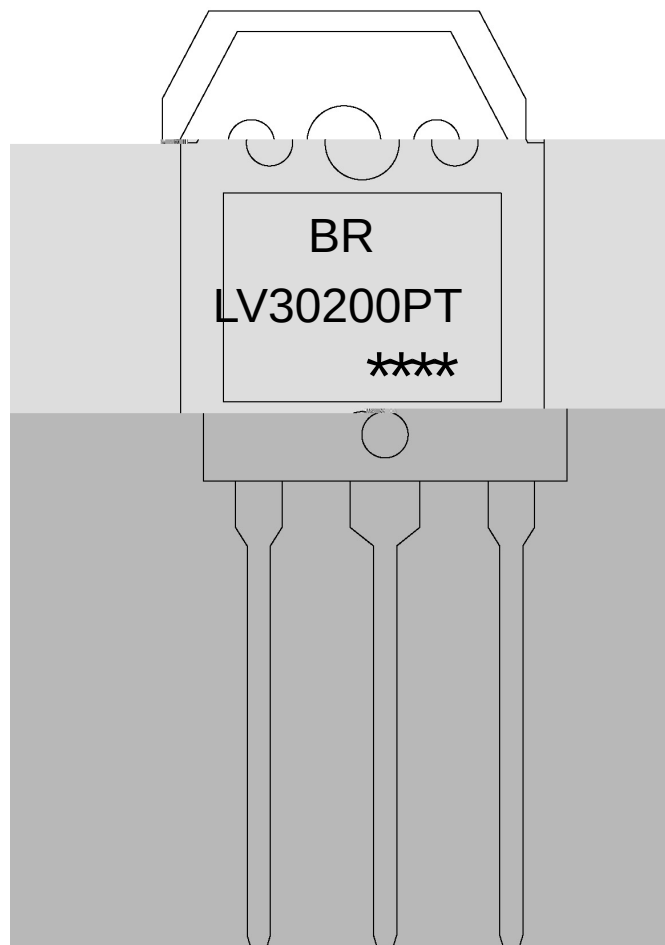
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

LV30200PT

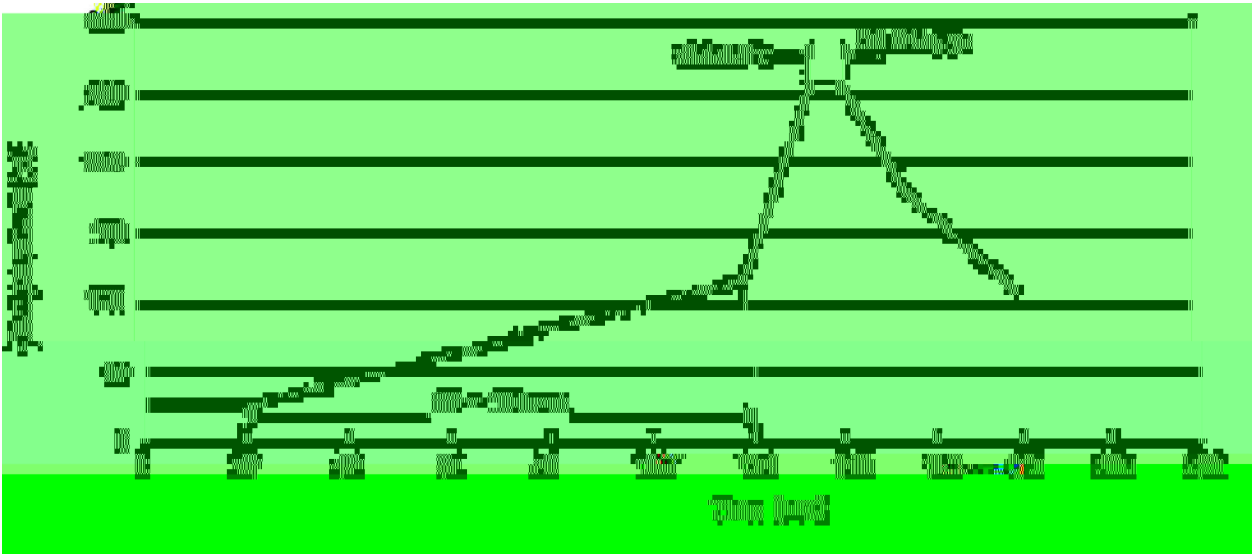
Note:

BR: Company Code.

LV30200PT: Product Type.

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

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



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

, Time:60~90sec.
- 2.Peak Temp.:255±5

, Duration:5±0.5sec.
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