

TO-3P

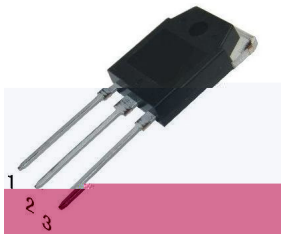
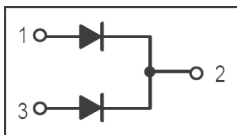
Schottky Barrier Diode in a TO-3P Plastic Package.

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

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.



PIN1 Anode PIN 2 Cathode PIN 3 Anode

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	150	V
RMS Reverse Voltage	V_{RMS}	105	V
Average forward current	$I_{F(AV)}$	2×20	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	300	A
Thermal Resistance Junction to Ambient case	$R_{\theta Jc}$	1.4	/W
Junction and Storage Temperature Range	T_J T_{stg}	-40 +150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R=1mA(T_a=25^\circ C)$	150			V
Forward Voltage	V_F	$I_F=5A(T_a=25^\circ C)$		0.68		V
		$I_F=10A(T_a=25^\circ C)$		0.76		V
		$I_F=20A(T_a=25^\circ C)$		0.89	1.05	V
		$I_F=5A(T_a=125^\circ C)$		0.56		V
		$I_F=10A(T_a=125^\circ C)$		0.63		V
		$I_F=20A(T_a=125^\circ C)$		0.73	0.85	V
Instantaneous Reverse current (Note 1)	I_R Note 1	$V_R=150V(T_a=25^\circ C)$		3.0	30	μA
		$V_R=150V(T_a=125^\circ C)$		5.0	15	mA

/Notes

1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip.

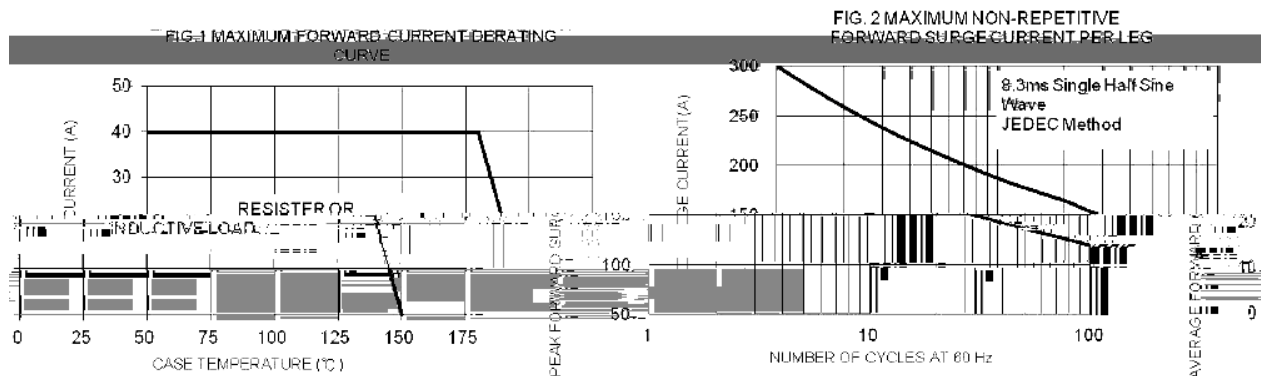


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

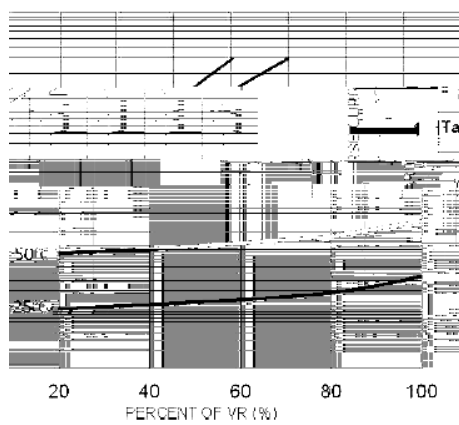
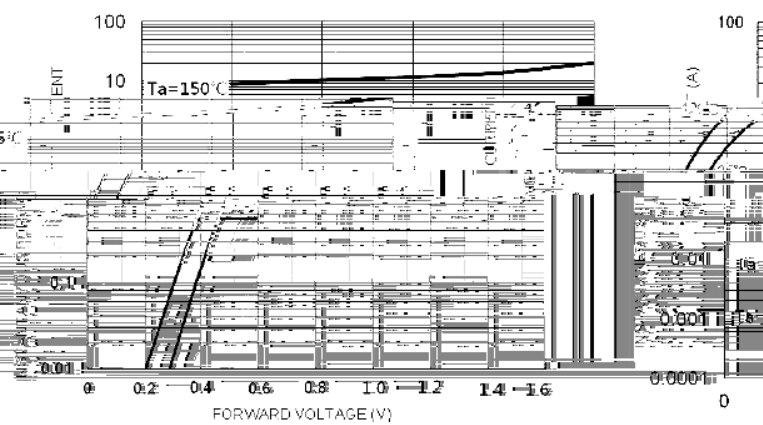
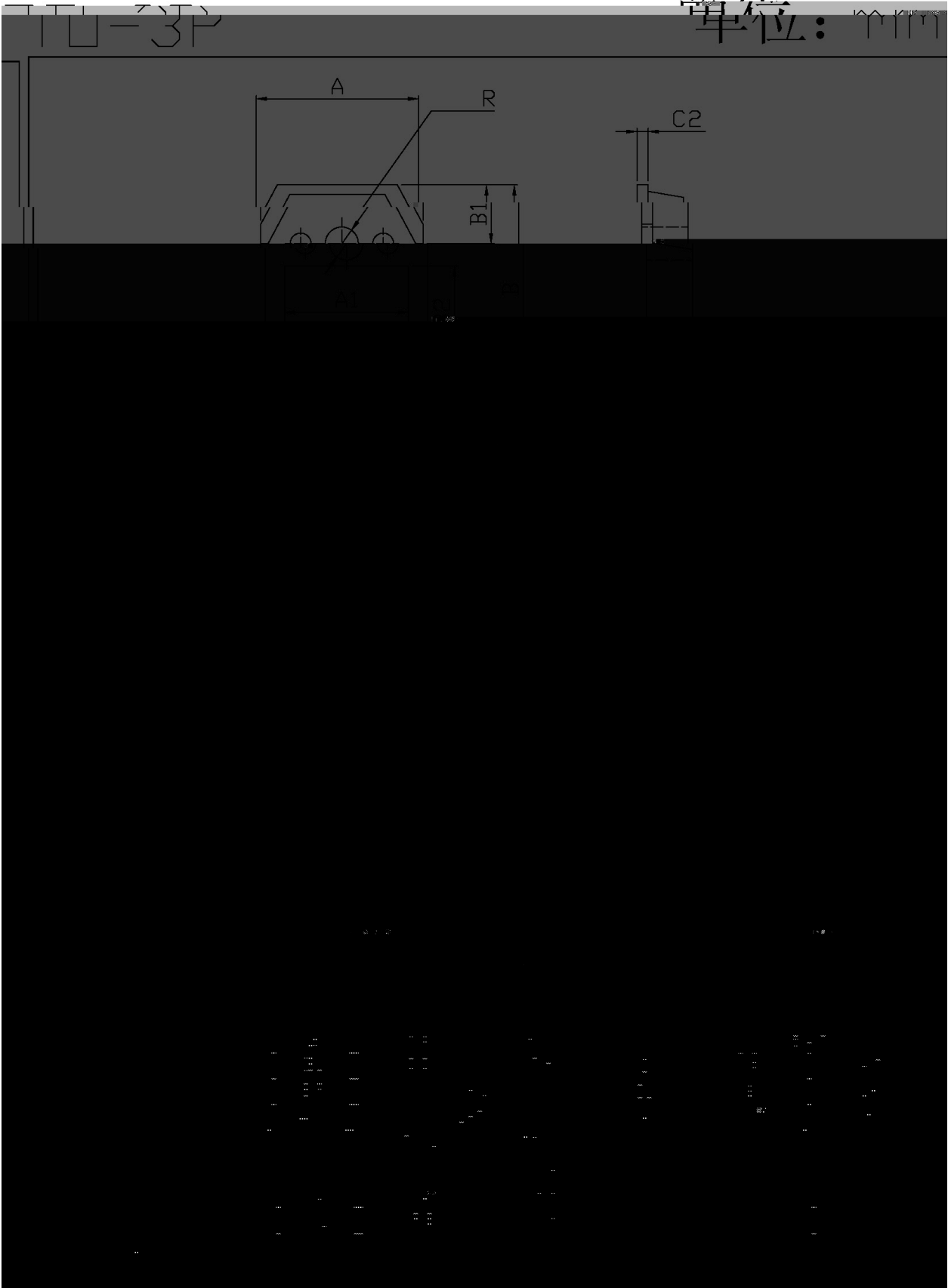
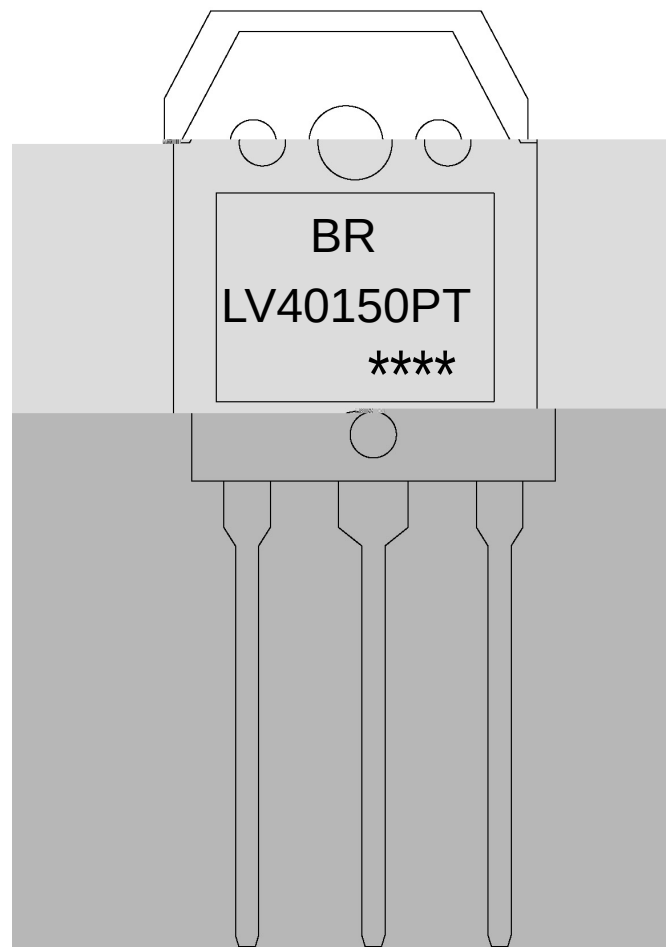


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG







BR

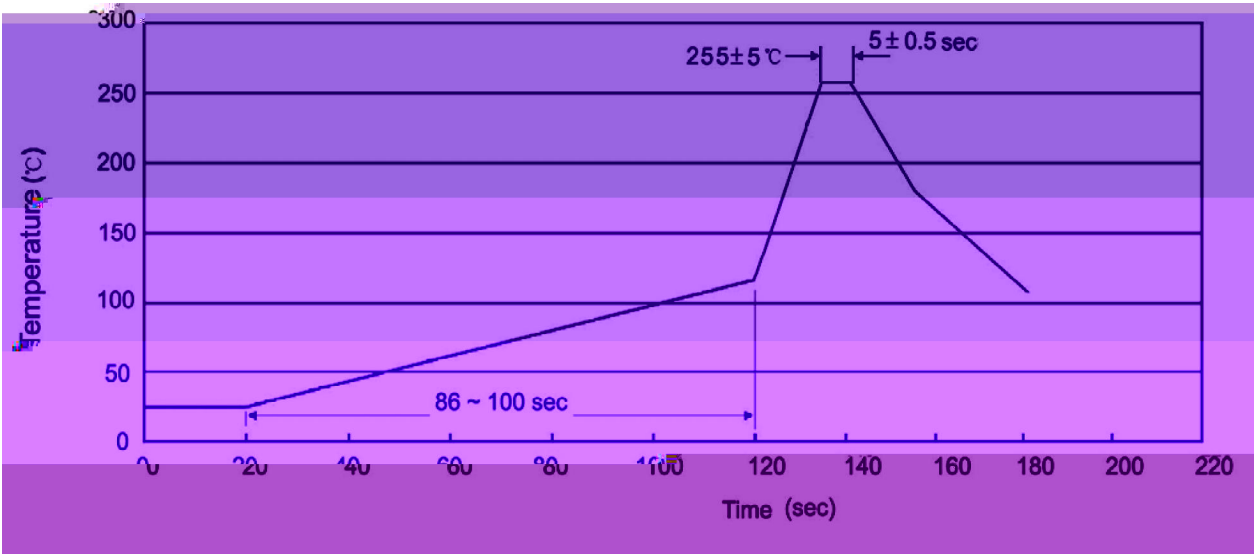
LV40150PT

Note:

BR: Company Code.

LV40150PT: Product Type.

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



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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ 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