LV10T150D

Rev.F May.-2016

DATA SHEET

/ Descriptions

TO-252

Schottky Barrier Diode in a TO-252 Plastic Package.

/ Features

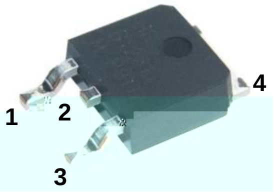
High Forward Surge Capability, Ultra Low Forward Voltage Drop, Excellent High Temperature Stability.

/ Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit

/ Pinning



PIN1	Anode	PIN 2,4	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_{RRM} V_{RWM} V_{RM}	150	V
RMS Reverse Voltage	$V_{R(RMS)}$	105	V
Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak Forward Surge Current	I_{FSM}	200	A
Typical Thermal Resistance Junction to Case	$R_{\ Jc}$	6.5	/W
Junction Temperature Range	$T_{j\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	I_R=0.3mA	150			V
Forward Voltage	V_F	I_F=2A T_J=25		0.57	0.60	V
		I_F=2A T_J=125		0.47	0.55	V
		I_F=10A T_J=25		0.81	0.85	V
		I_F=10A T_J=125		0.69	0.75	V
Instantaneous Reverse Current	I_R Note 1	V_R=100V T_J=25		5	50	uA
		V_R=100V T_J=100			10	mA
		V_R=100V T_J=125			20	mA

/Notes

1. /Short duration pulse test used to minimize self-heating effect.

/ Electrical Characteristic Curve

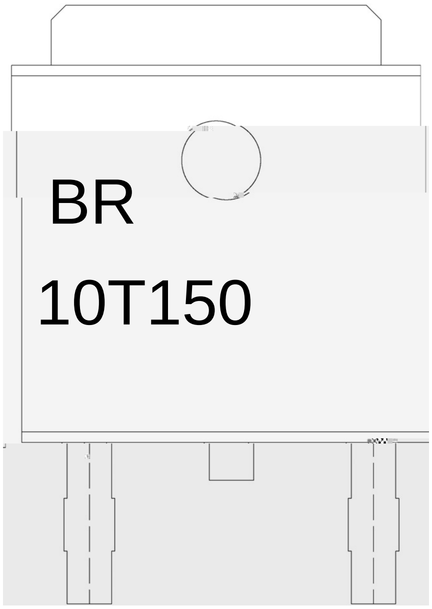
/ Package Dimensions

1.25	1.75
0.60	0.90
0.00	0.10

C	0.45	0.55	L2
D	6.45	6.75	L3
D1	5.10	5.50	K

TO-252

/ Marking Instructions



BR

10T150

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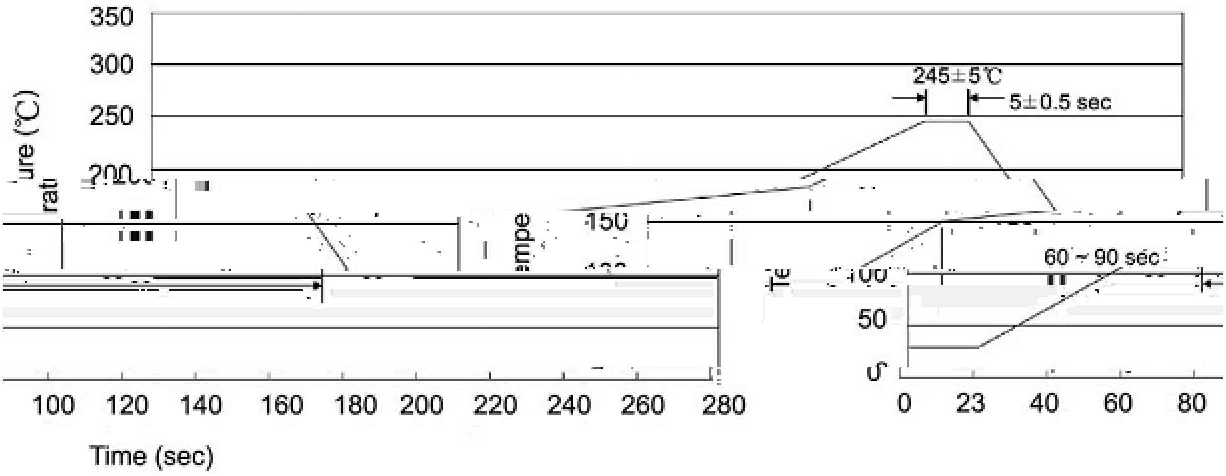
Note:

BR:	Company Code
10T150	Product Type Code.
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



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

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm^3)		