/ Descriptions

TO-252
Schottky Barrier Diode in a TO-252 Plastic Package.

/ Features

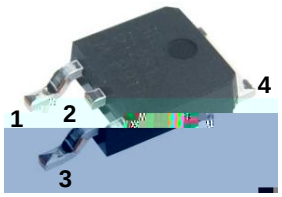
High Forward Surge Capability, Ultra Low Forward Voltage Drop, Excellent High Temperature Stability.

/ 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	$R_{\theta Jc}$	6.5	/W
Junction Temperature Range	$T_{j\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

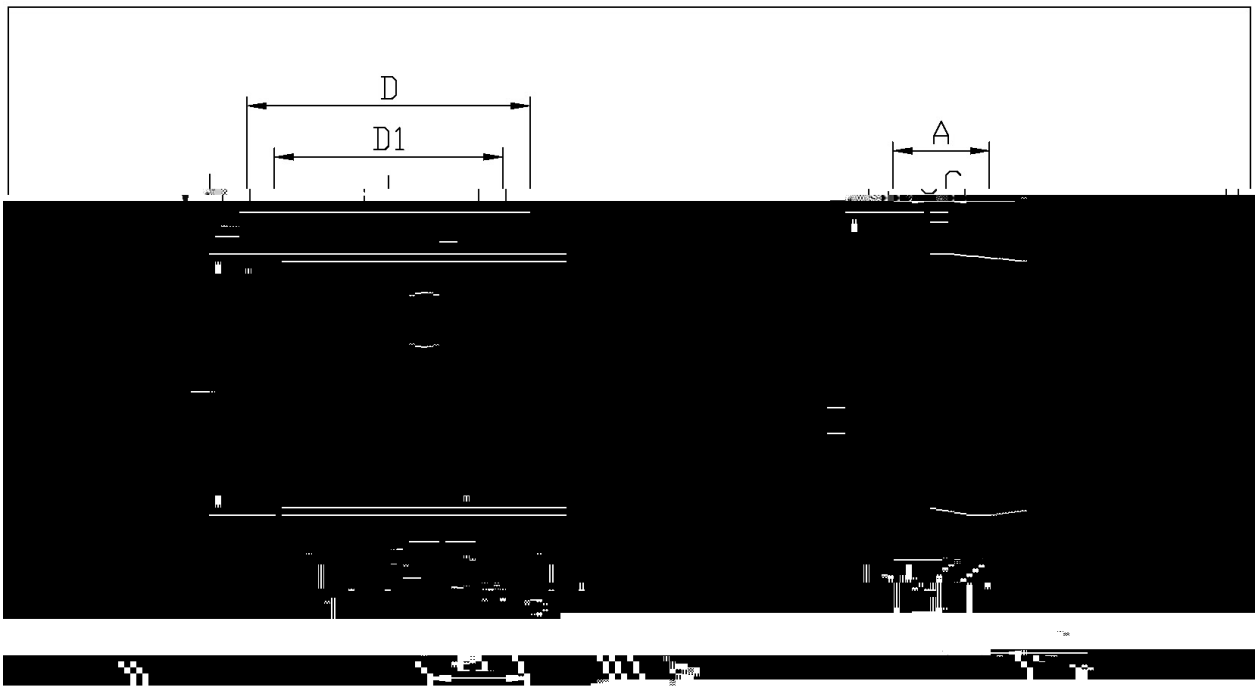
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	I_R=0.3mA	150			V
Forward Voltage	V_F	I_F=2A T_J=25		0.57	0.60	V
		I_F=2A T_J=125		0.47	0.55	V
		I_F=10A T_J=25		0.81	0.85	V
		I_F=10A T_J=125		0.69	0.75	V
Instantaneous Reverse Current	I_R Note 1	V_R=100V T_J=25		5	50	uA
		V_R=100V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

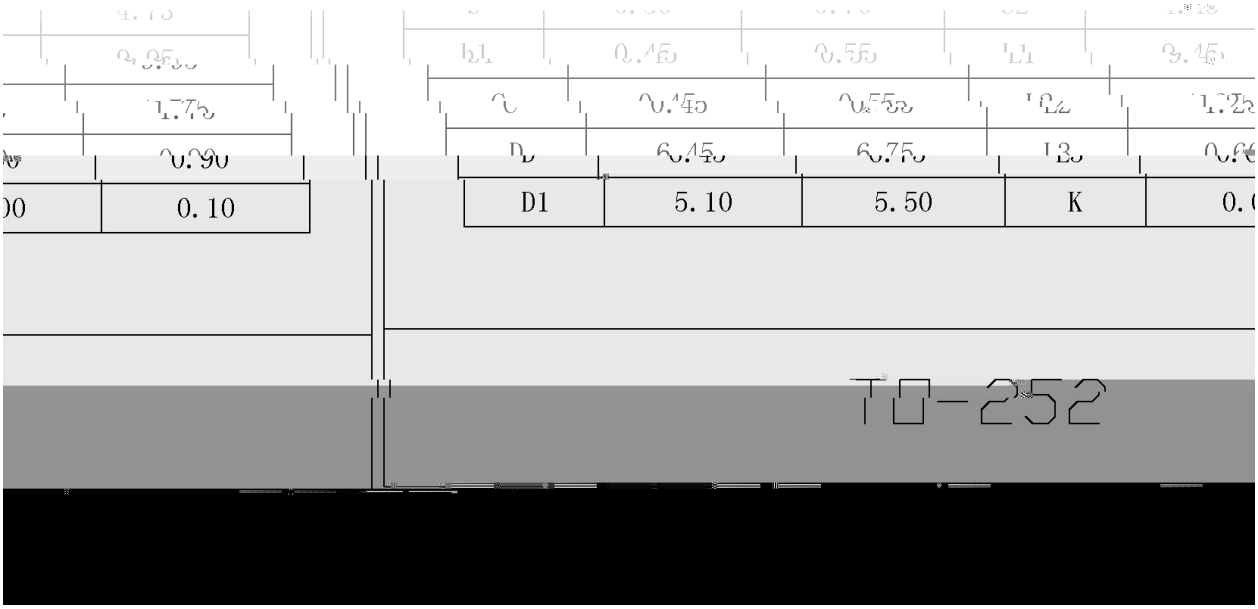
/Notes

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

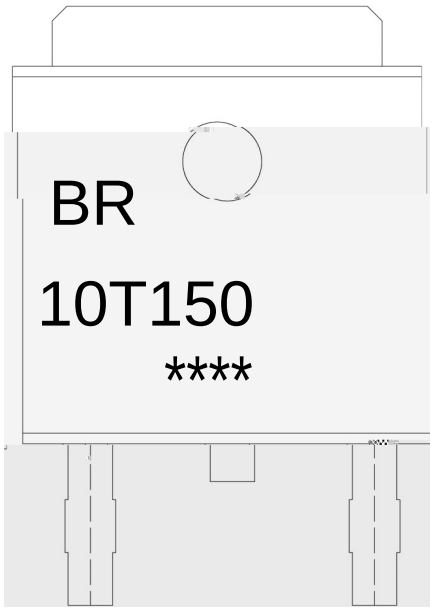
/ Electrical Characteristic Curve

/ Package Dimensions





/ Marking Instructions



BR

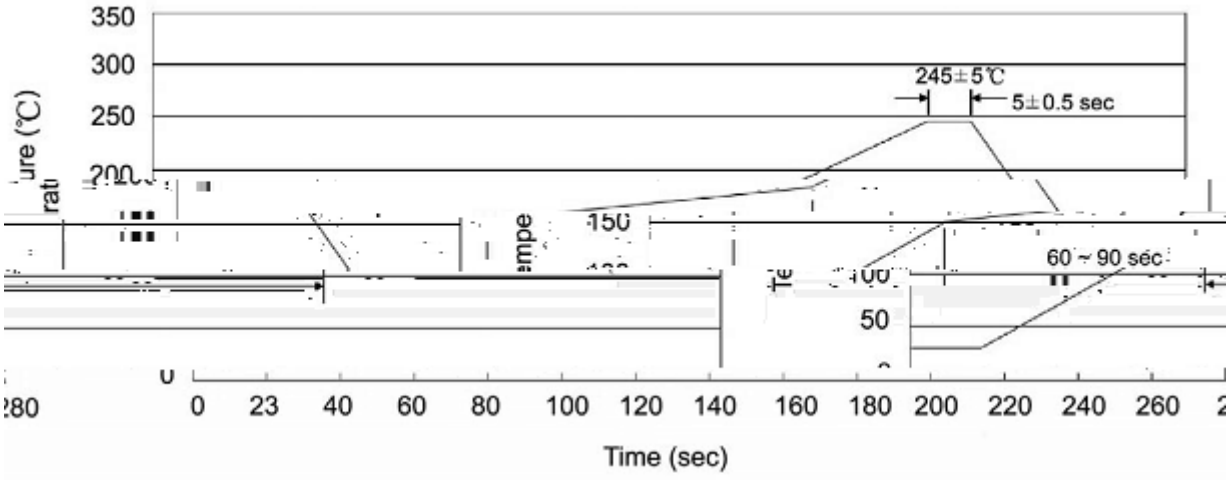
10T150

****

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)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	5	25,000	13 ×16	360×360×50	385×257×392

/ ×169313T624