

/ Descriptions

TO-252

Schottky Diode in a TO-252 Plastic Package.

/ Features

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

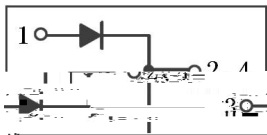
/ Applications

OR-ing

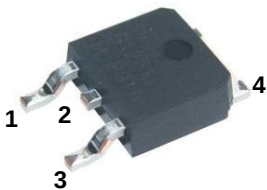
DC-DC

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 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	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Typical Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	$^{\circ}C/W$
Storage Temperature Range	T_{stg}	-40~150	$^{\circ}C$

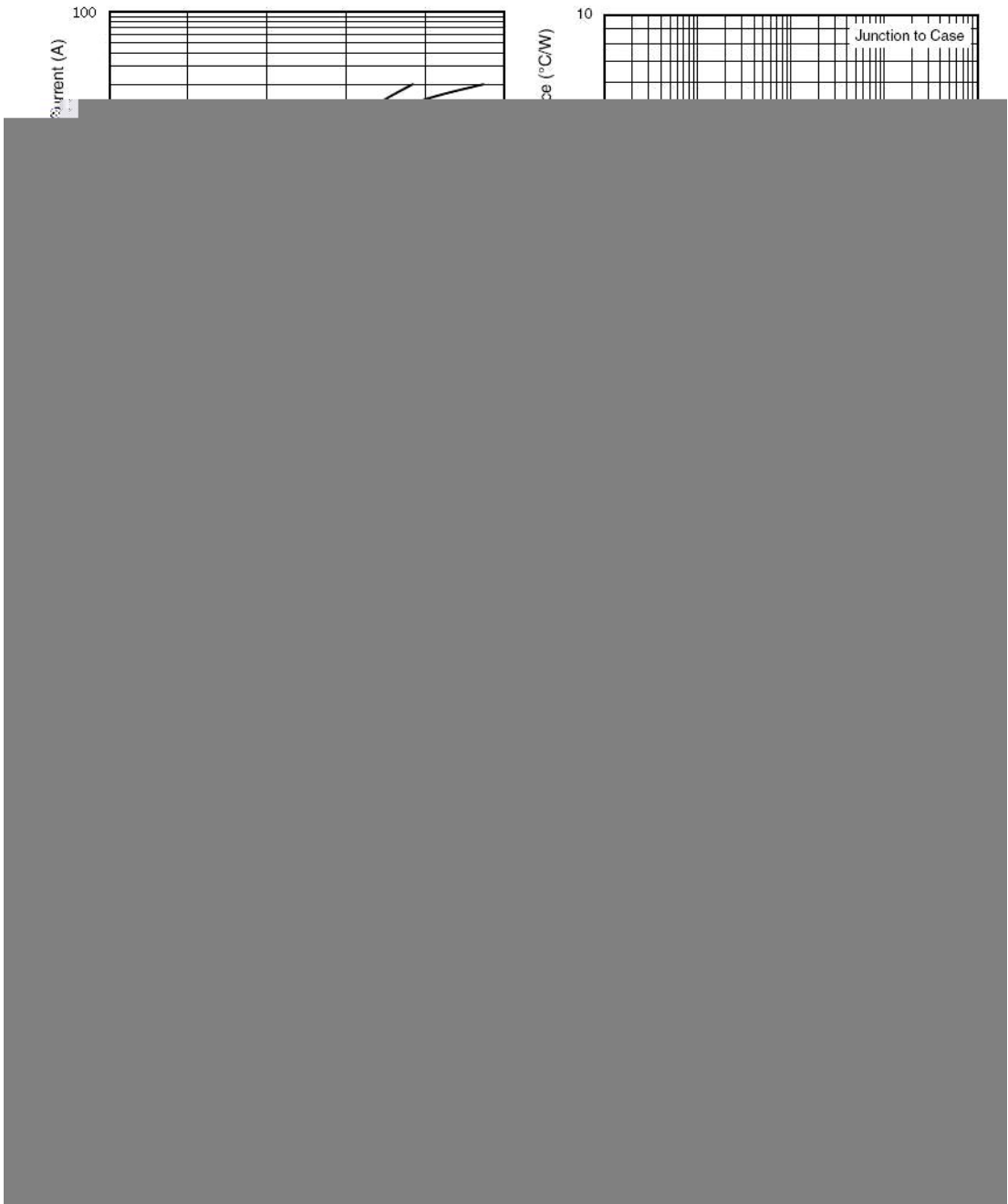
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=1mA$	100			V
Forward Voltage	V_F	$I_F=5A$ $T_a=25^{\circ}C$		0.54	0.65	V
		$I_F=10A$ $T_a=25^{\circ}C$		0.69	0.79	V
		$I_F=20A$ $T_a=25^{\circ}C$		0.97	1.02	V
		$I_F=5A$ $T_a=125^{\circ}C$		0.51	0.62	V
		$I_F=10A$ $T_a=125^{\circ}C$		0.65	0.76	V
		$I_F=20A$ $T_a=125^{\circ}C$		0.95	0.99	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R=100V$ $T_a=25^{\circ}C$			100	uA
		$V_R=100V$ $T_a=125^{\circ}C$		10	20	mA

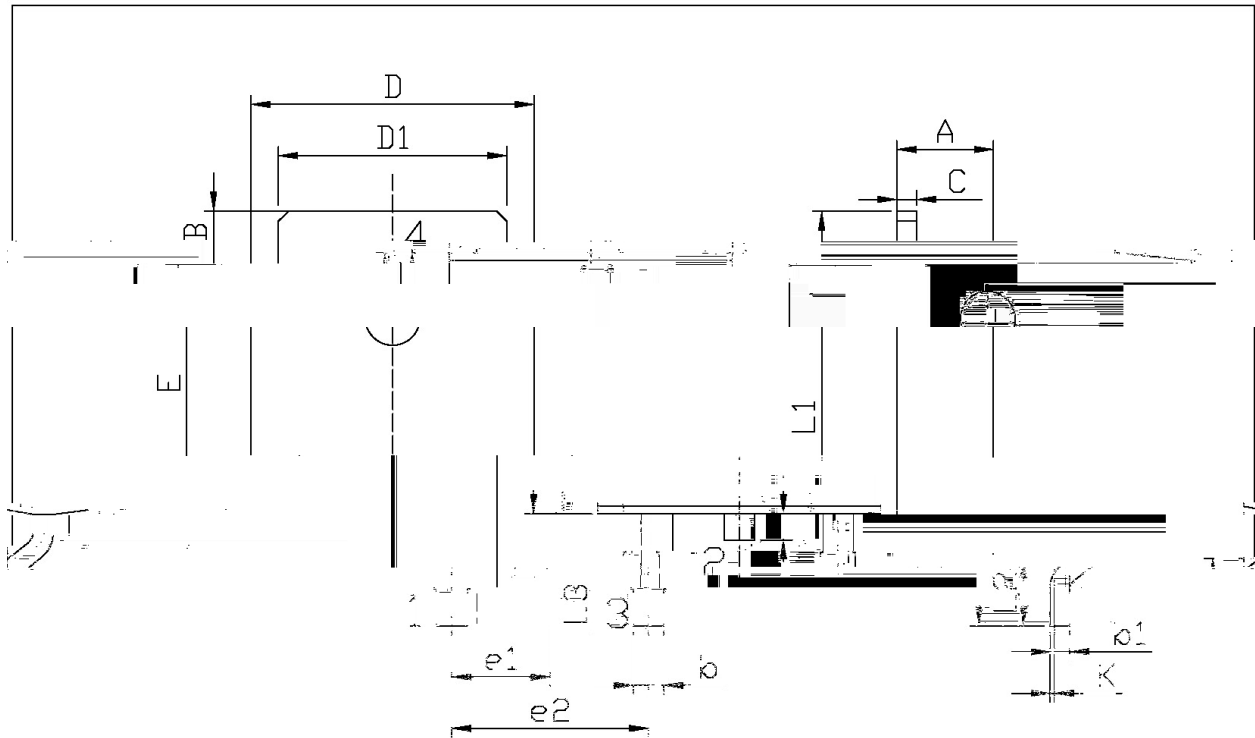
/Notes:

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

/ Electrical Characteristic Curve



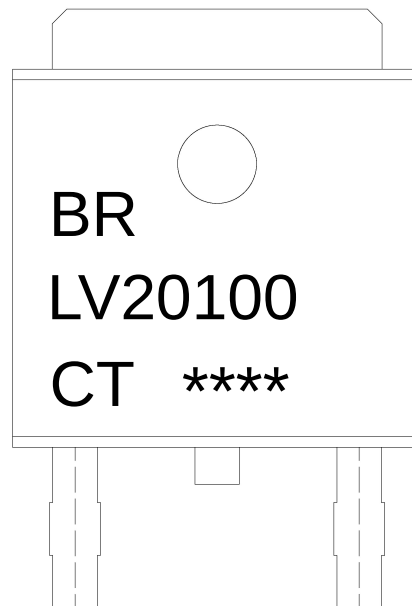
/ Package Dimensions



单位: mm

Dimensions in Millimeters		Symbol		Dimensions in Millimeters		Symbol	
Min	Max			Min	Max		
5.95	6.25	A		2.20	2.40	E	
2.20	2.30	B		0.95	1.25	L1	
0.70	0.75	e2		4.43	4.73	b	0.3
0.55	0.65	L10		9.45	9.95	b1	0.4
0.55	0.65	L2		1.25	1.75	C	0.4
6.75	7.25	L3		0.60	0.90	D	6.2
5.10	5.50	K		0.00	0.10		

/ Marking Instructions



BR

LV20100

CT:

Note:

BR:

Company Code

LV20100

Product Type.

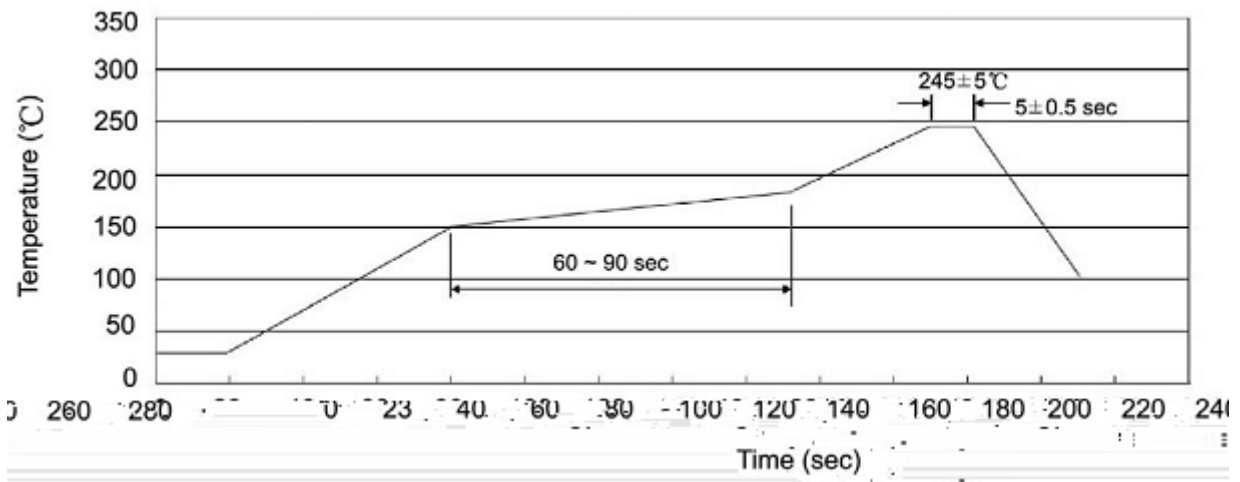
CT:

Internal Structure

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Lot No. Code, code change with Lot No.

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