

/ Descriptions

Schottky Diode in a TO-252 Plastic Package.

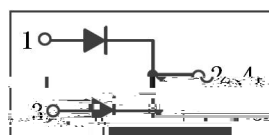
/ Features

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

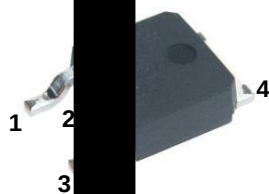
/ Applications

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 Cathode PIN 2 Anode PIN 3 Cathode PIN 4 Anode

/ Marking Instructions & Marking

See Marking Instructions.

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

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	$^\circ\text{C}/\text{W}$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ\text{C}$

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

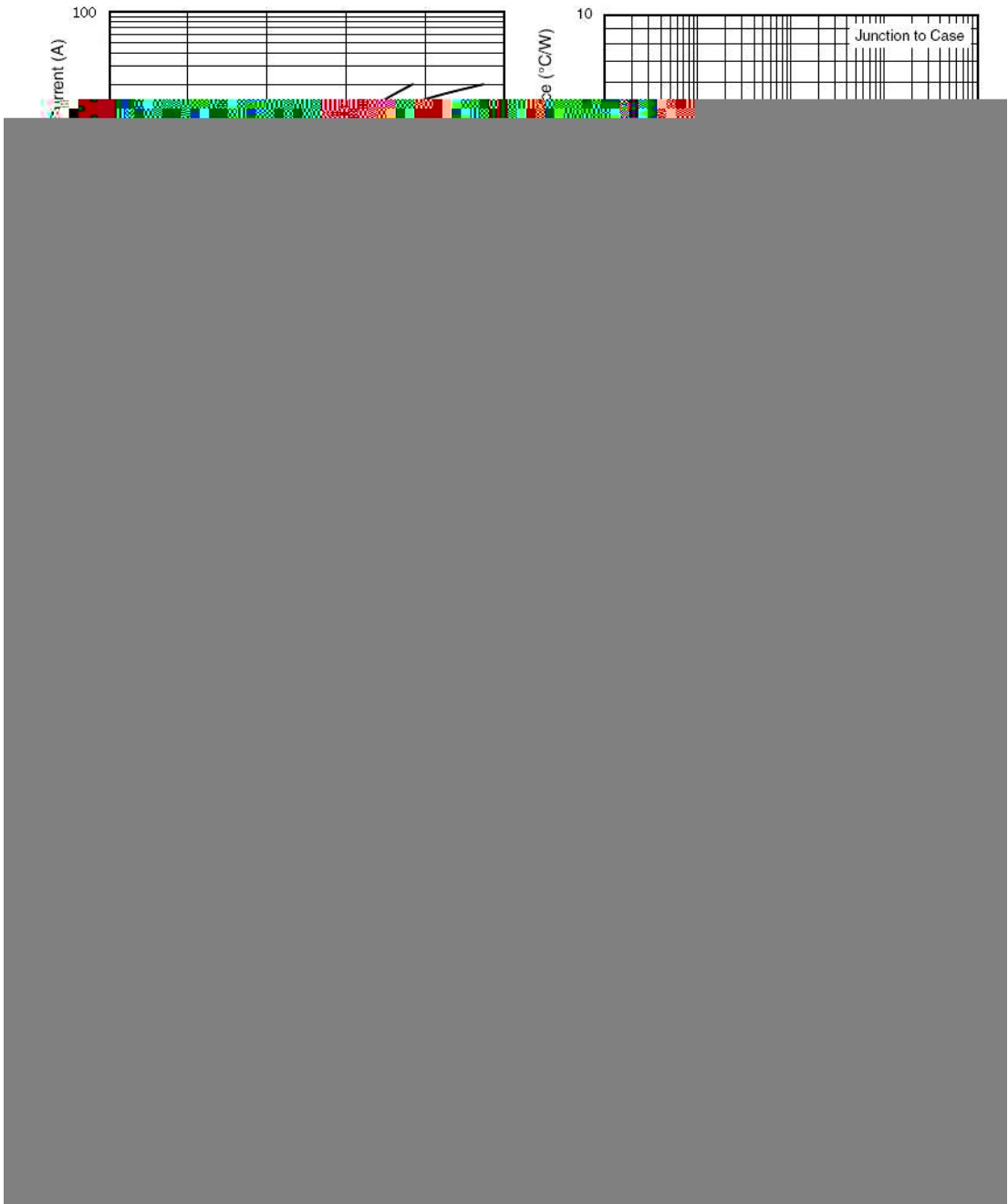
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=1\text{mA}$	100			V
Forward Voltage	V_F	$I_F=5\text{A}$ $T_a=25^\circ\text{C}$		0.54	0.65	V
		$I_F=10\text{A}$ $T_a=25^\circ\text{C}$		0.69	0.79	V
		$I_F=20\text{A}$ $T_a=25^\circ\text{C}$		0.97	1.02	V
		$I_F=5\text{A}$ $T_a=125^\circ\text{C}$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

/Notes:

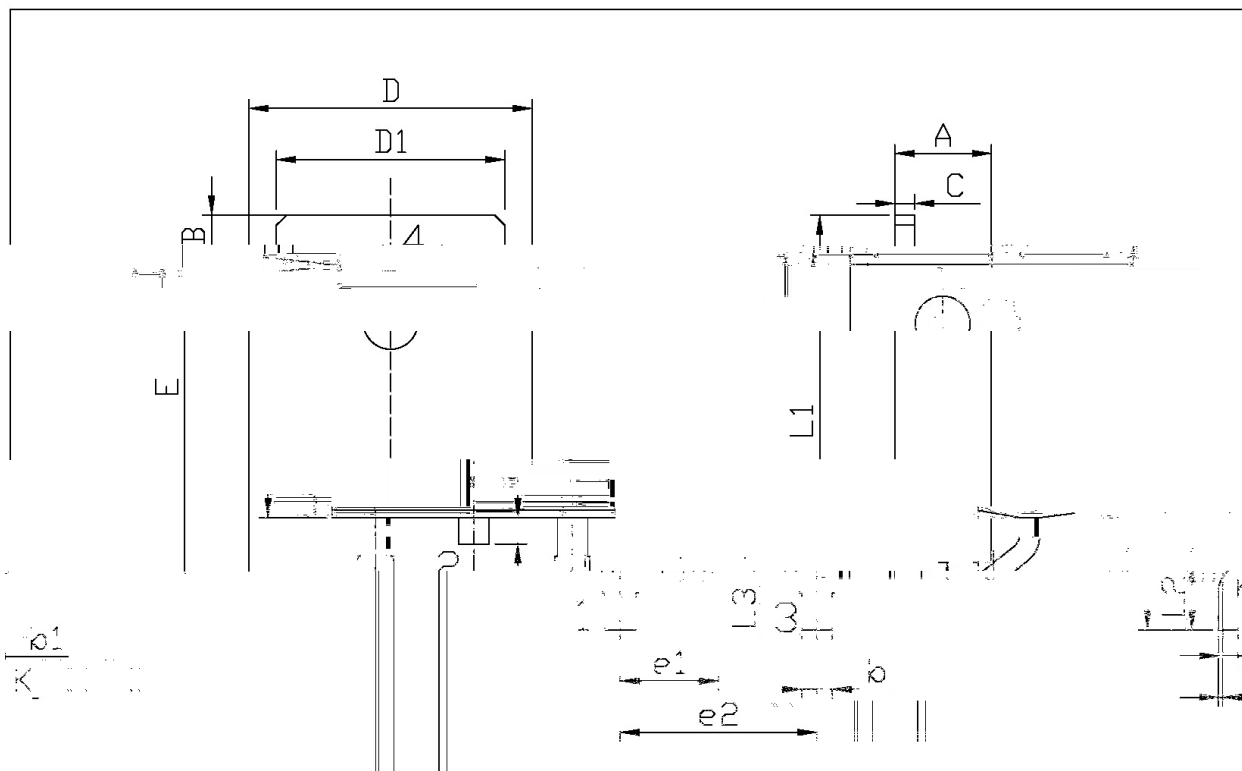
。/Short duration pulse test used to minimize self-heating effect.

/ Unless otherwise noted, values for the parameters of a single chip

/ Electrical Characteristic Curve

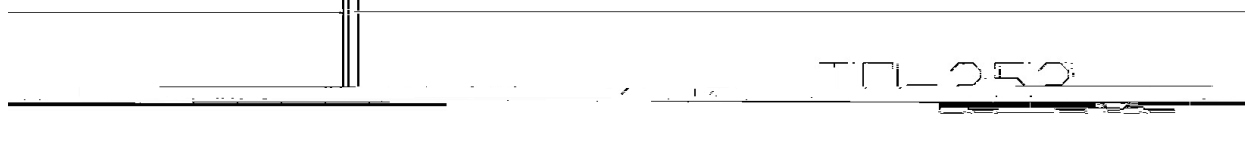


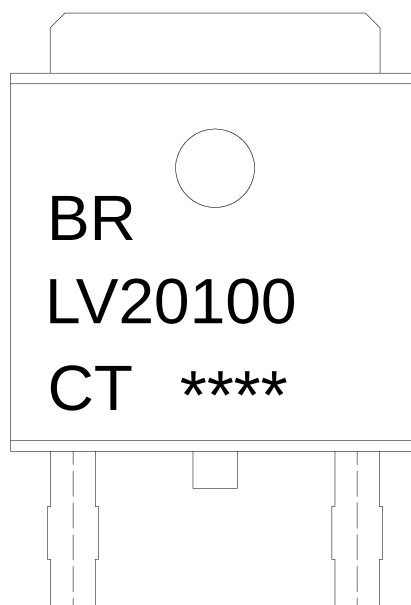
/ Package Dimensions



单位: mm

Dimensions in Millimeters				Dimensions in Inches			
Symbol	Min	Max	Symbol	Min	Max	Symbol	Min
E	5.95	6.25	A	2.43	2.54	A	0.95
D	6.30	6.40	B	0.43	0.43	B	0.017
b1	0.45	0.55	C	1.25	1.25	C	0.05
C	3.45	3.55	D	6.45	6.45	D	0.25
D	6.45	6.75	D1	5.10	5.50	D1	0.20
D1	5.10	5.50	K	0.00	0.10	K	0.00





Note:

BR:

Company Code

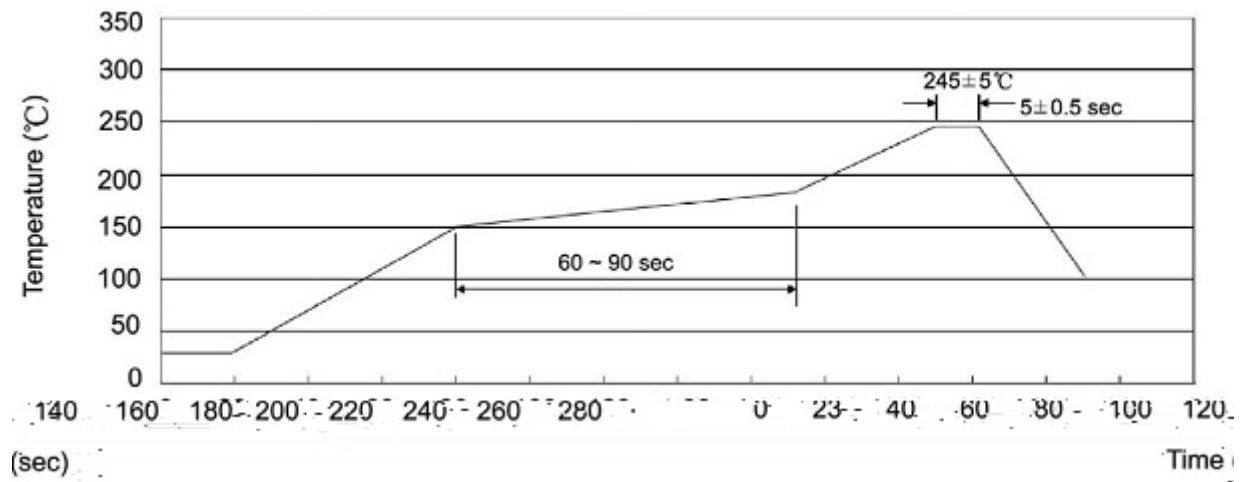
Product Type.

Internal Structure

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Lot No. Code, code change with Lot No.

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