

/ Descriptions

TO-252

Schottky Diode in a TO-252 Plastic Package.

/ Features

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

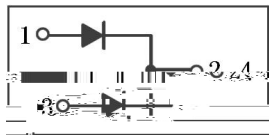
/ Applications

OR-ing

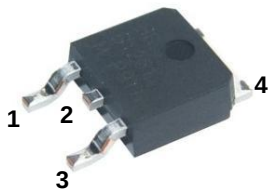
DC-DC

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	μA
		$V_R=100V$ $T_a=125^{\circ}C$		10	20	mA

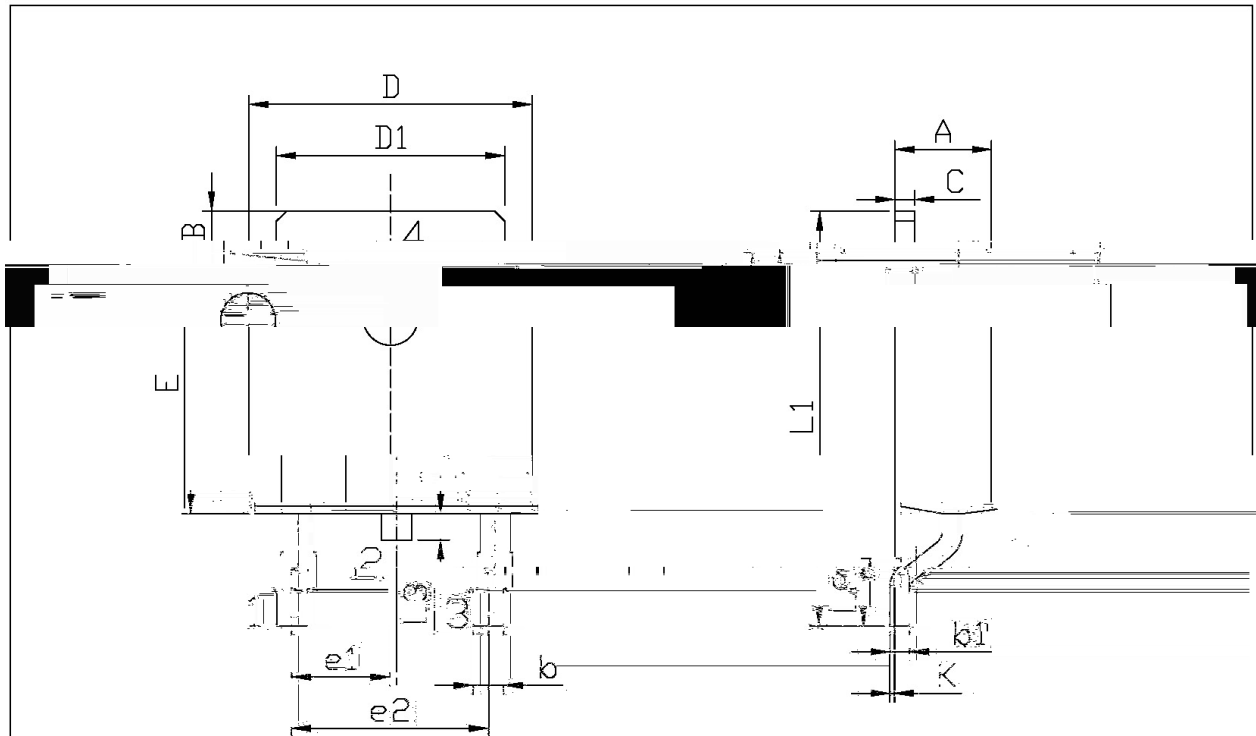
/Notes:

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



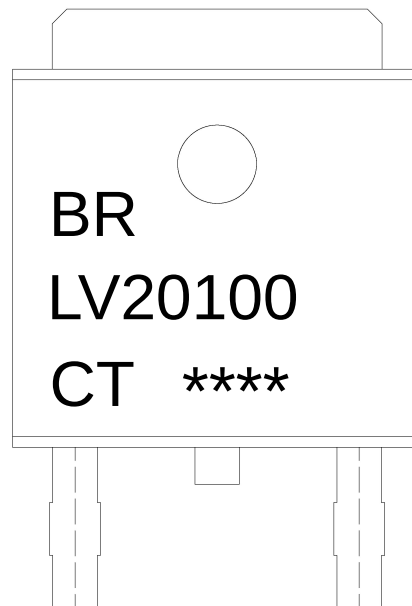
/ Package Dimensions



单位: mm

Symbol	Dimension	Unit	Symbol	Dimension	Unit
D	11.75	mm	b	0.50	mm
D1	5.10	mm	b1	0.45	mm
B	9.95	mm	b2	4.73	mm
E	1.75	mm	L1	9.45	mm
K	0.00	mm	J2	1.25	mm

/ Marking Instructions



BR

LV20100

CT:

Note:

BR:

Company Code

LV20100

Product Type.

CT:

Internal Structure

****:

Lot No. Code, code change with Lot No.

