

LV20100CT

Rev.1 Jul.-2018

/ Descriptions

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

/ Features

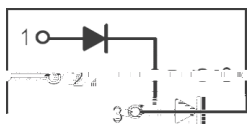
Low forward voltage drop, low power losses, High efficiency operation.

/ Applications

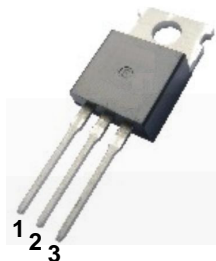
OR-ing DC-DC

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 Cathode PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	100	V
Average forward rectified current	$I_{F(AV)}$	2 10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Thermal Resistance Junction to Case	R_{Jc}	2	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40 +150	

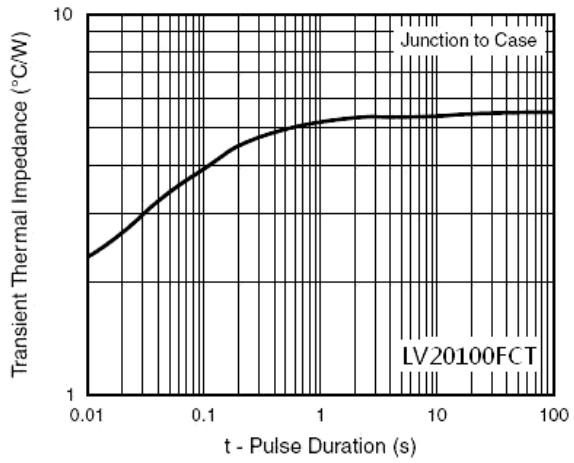
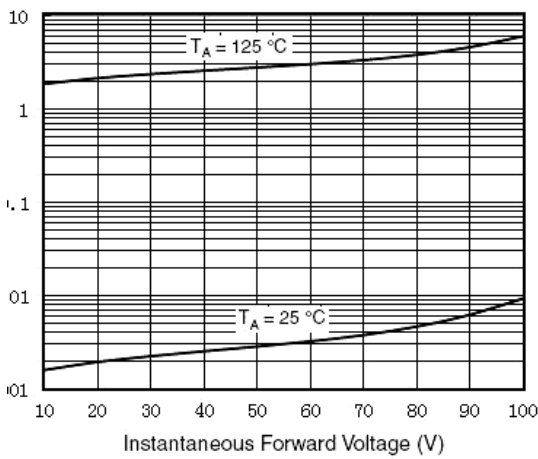
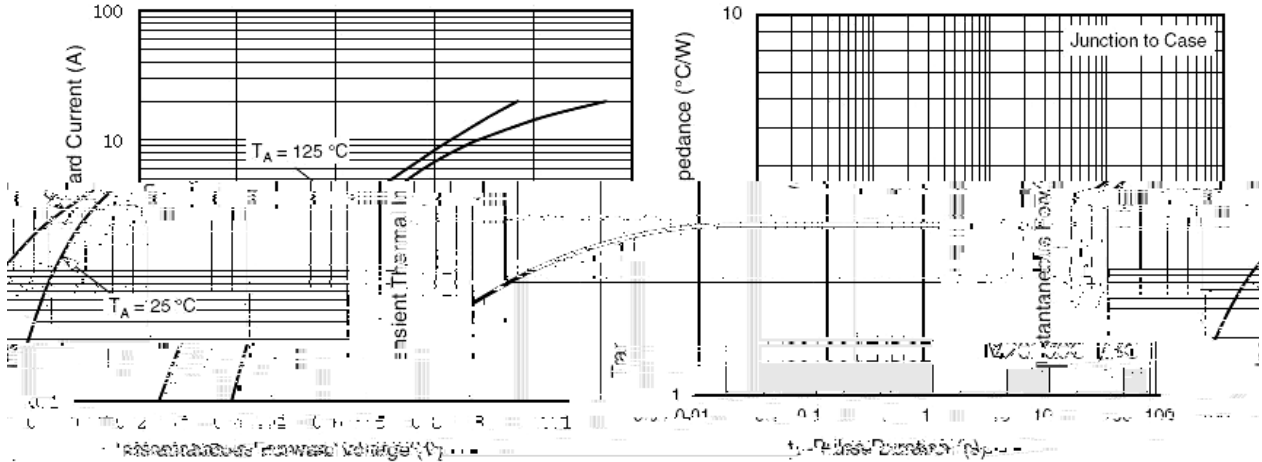
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Reverse Voltage	V_{BR}	$I_R=1mA(Ta=25^{\circ}C)$	100			V
Forward Voltage	V_F	$I_F=5A(Ta=25^{\circ}C)$		0.55	0.65	V
		$I_F=10A(Ta=25^{\circ}C)$		0.73	0.79	V
		$I_F=5A(Ta=125^{\circ}C)$		0.50	0.60	V
		$I_F=10A(Ta=125^{\circ}C)$		0.62	0.68	V
Instantaneous Reverse Current	I_R Note 1	$V_R=100V(Ta=25^{\circ}C)$			100	A
		$V_R=100V(Ta=125^{\circ}C)$		10	25	mA

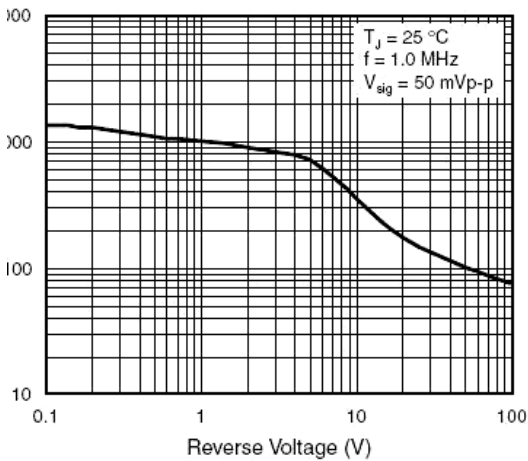
/Notes

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

/ Electrical Characteristic Curve



Instantaneous Reverse Current (mA)

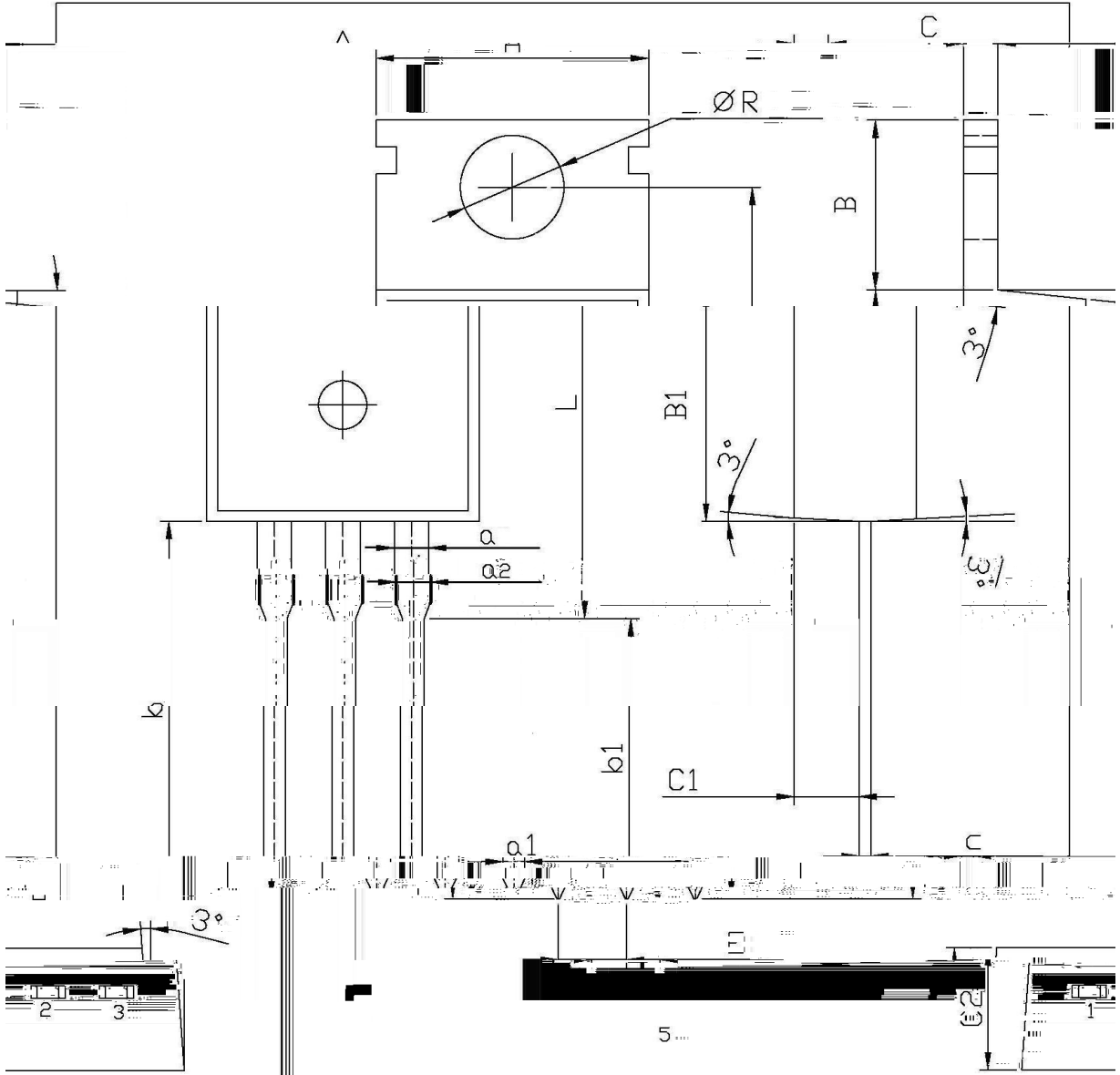


Junction Capacitance (pF)

/ Package Dimensions

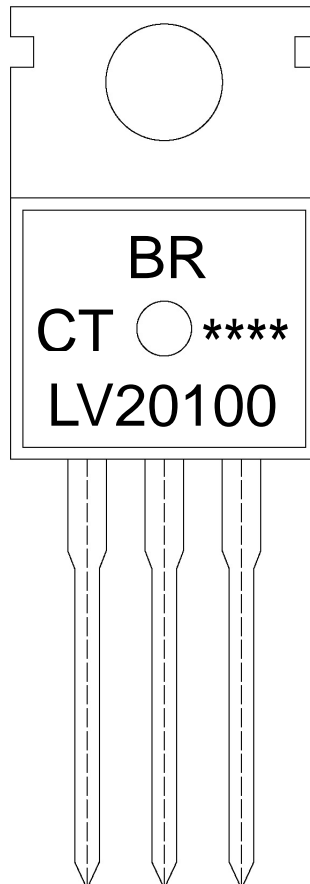
TO-220

单位: mm



Symbol	Min	Max	Symbol	Min	Max
R	0.4	0.6	B	6.3	6.7
a	1.22	1.32	B1	9.00	9.4
a2	1.25	1.45	C1	2.2	2.6
b	12.6	13.6	a1	2.34	2.74
b1	1.25	1.45	a2	1.25	1.45
C	2.54	2.74			

/ Marking Instructions



BR

LV20100

CT:

Note:

BR: Company Code

LV20100 Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.

