

LV30100CT

Rev. G Jul.-2018

TO-220

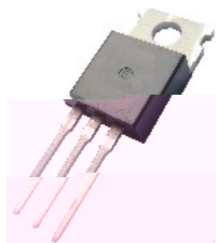
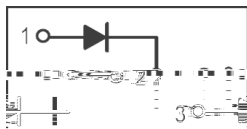
Schottky Barrier Diode in a TO-220 Plastic Package.

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

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.



PIN1 Anode PIN 2 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_{RM} V_{RSM} V_{DC}	100	V
RMS Voltage	V_{RMS}	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2×15	A
Non Repetitive Peak Surge Current	I_{FSM}	200	A
Thermal Resistance Junction to Case	R_{JC}	2.2	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40 +150	

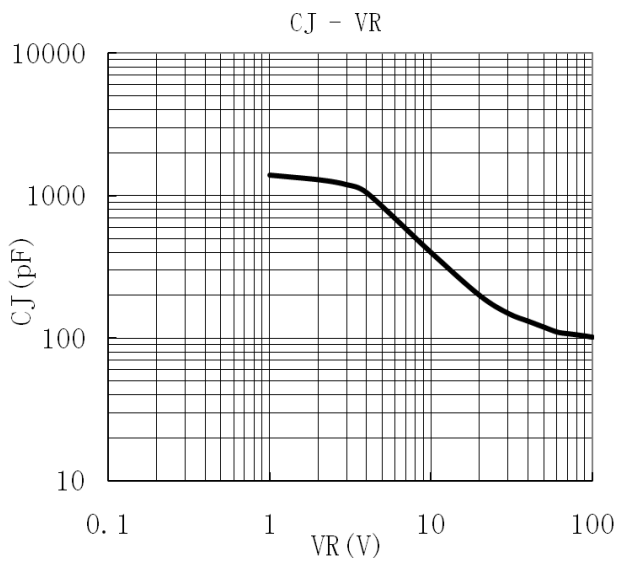
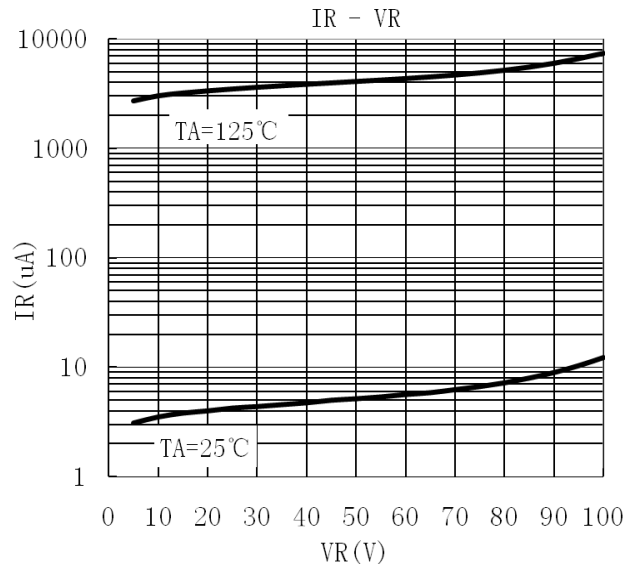
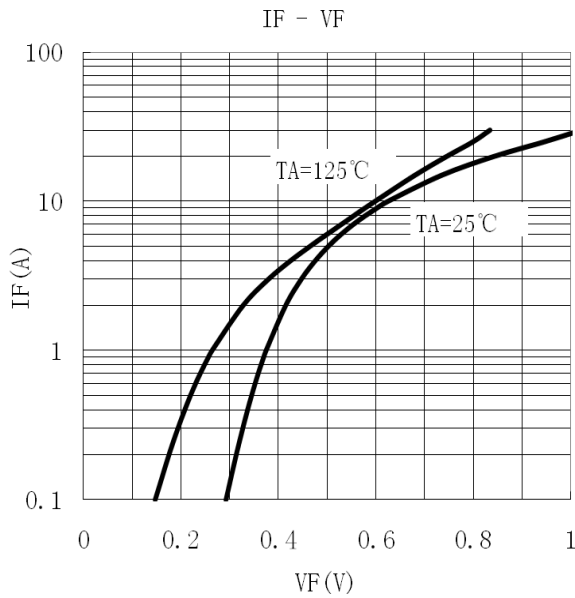
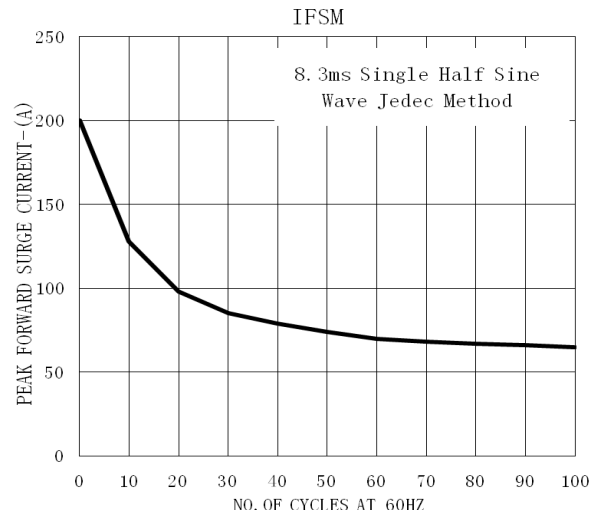
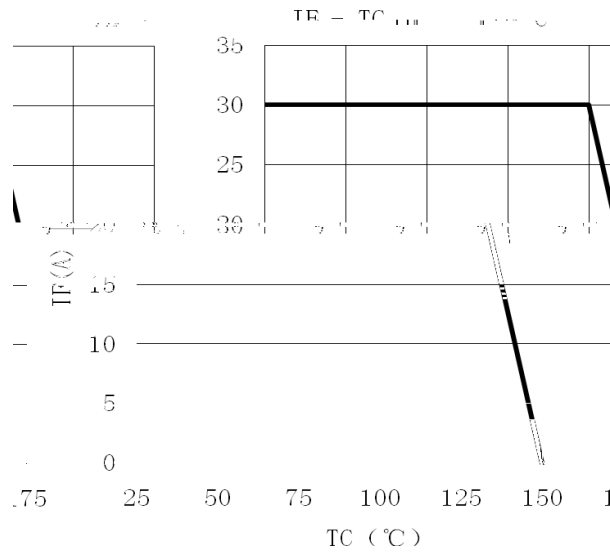
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	$I_R=1mA(Ta=25)$	100			V
Forward Voltage	V_F	$I_F=7.5A(Ta=25)$		0.57	0.65	V
		$I_F=7.5A(Ta=125)$		0.52	0.60	V
		$I_F=15A(Ta=25)$		0.73	0.80	V
		$I_F=15A(Ta=125)$		0.62	0.68	V
Instantaneous Reverse Current	I_R Note 1	$V_R=100V(Ta=25)$			150	A
		$V_R=100V(Ta=125)$		13	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

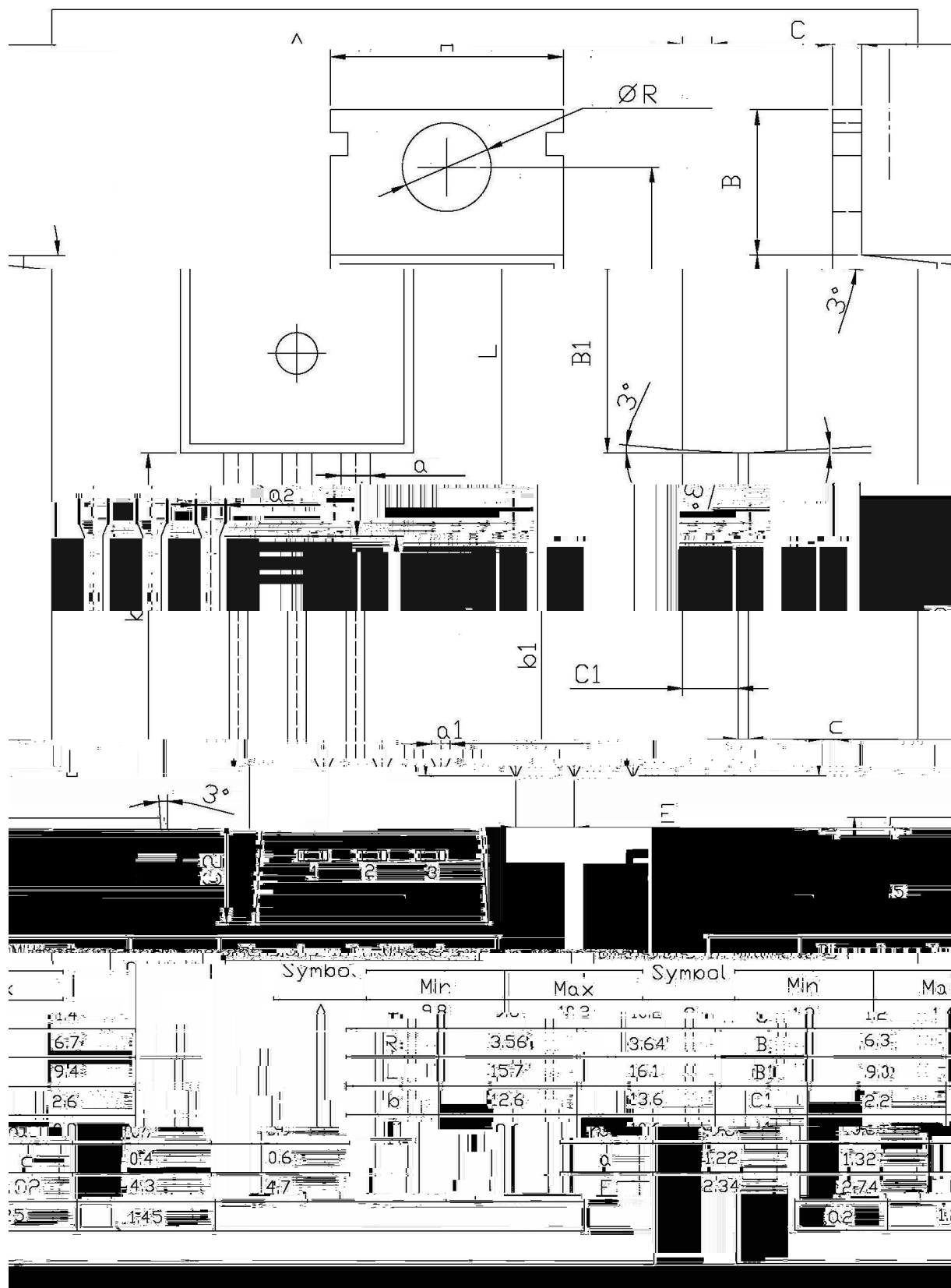
/ Electrical Characteristic Curve



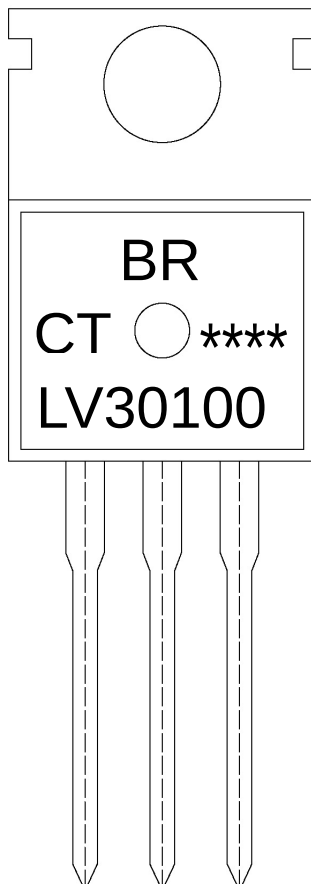
/ Package Dimensions

TQ-220

单位: mm



/ Marking Instructions



BR

LV30100

CT:

Note:

BR: Company Code

LV30100 Product Type.

CT: Internal Structure

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

