/ Descriptions

TO-263

Schottky Diode in a TO-263 Plastic Package.

/ Features

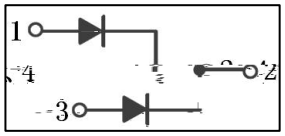
Low forward voltage drop,low power losses,High efficiency operation.

/ 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 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 forward rectified Current	I_F	2X10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40~+150	

/ Electrical Characteristics(Ta=25)

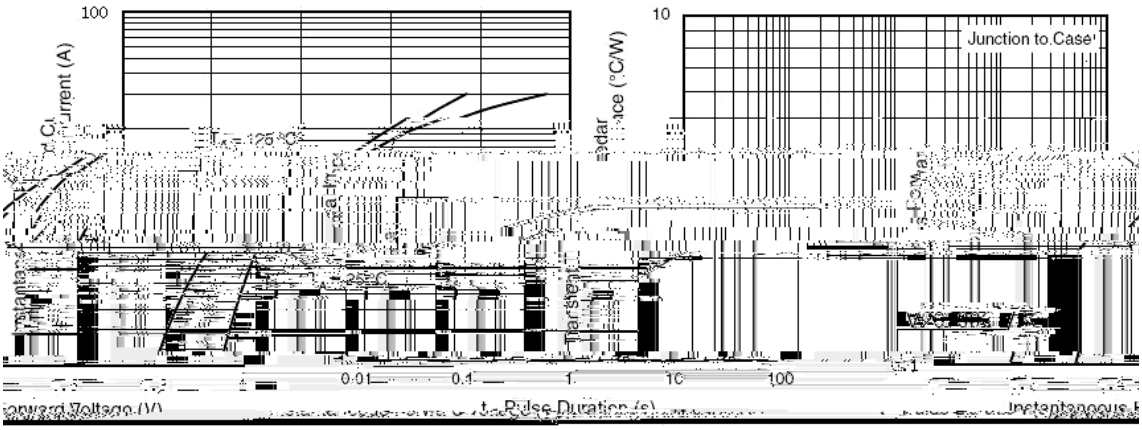
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	I_R =1mA	Ta=25	100			V
Forward Voltage	V_{FM}	I_F =5.0A	Ta=25		0.55	0.65	V
		I_F =10A	Ta=25		0.73	0.79	V
		I_F =5A	Ta=125		0.50	0.60	V
		I_F =10A	Ta=125		0.62	0.68	V
Instantaneous Reverse Current	I_R Note 1	V_R=100V	Ta=25			100	uA
		V_R=100V	Ta=125		10	25	mA

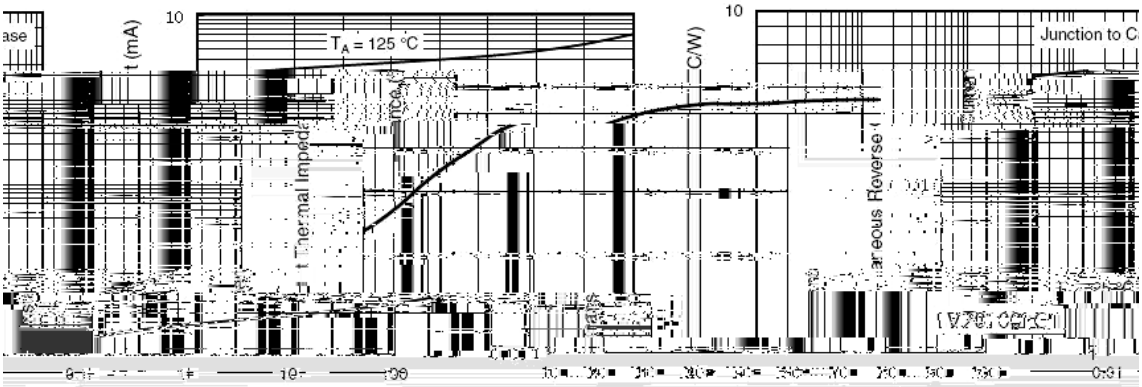
/Notes

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

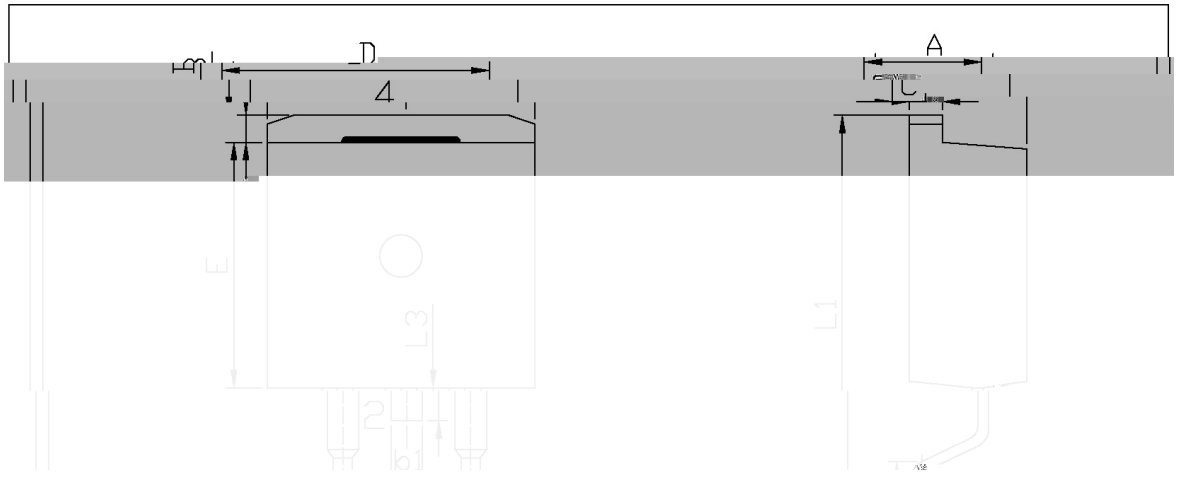
2. / Unless otherwise noted, values for the parameters of a single chip

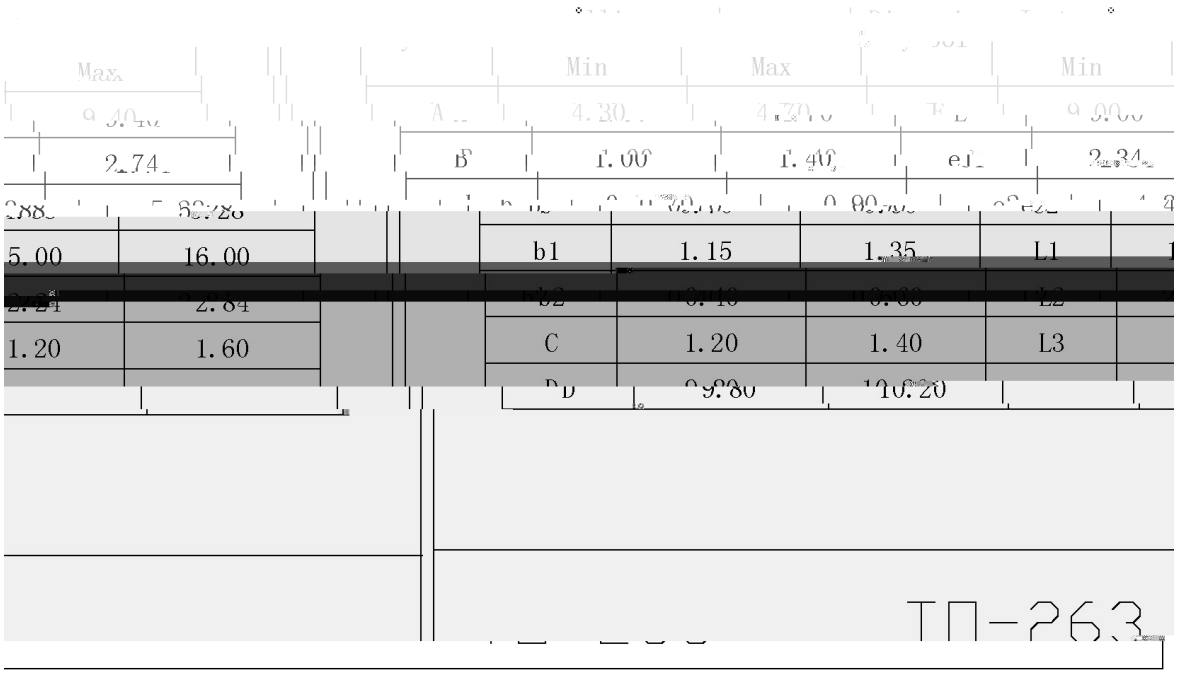
/ Electrical Characteristic Curve



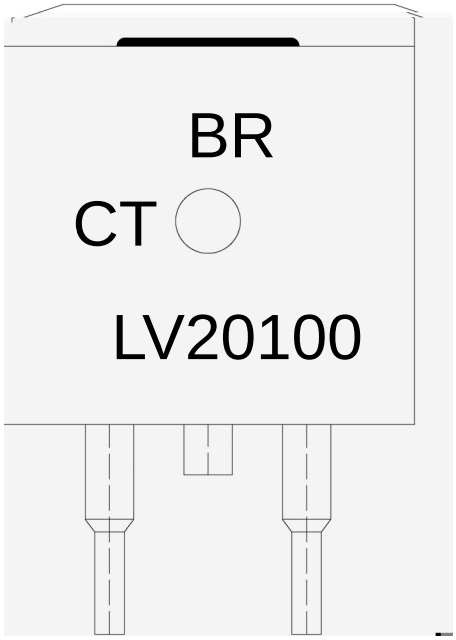


/ Package Dimensions





/ Marking Instructions



BR

LV20100

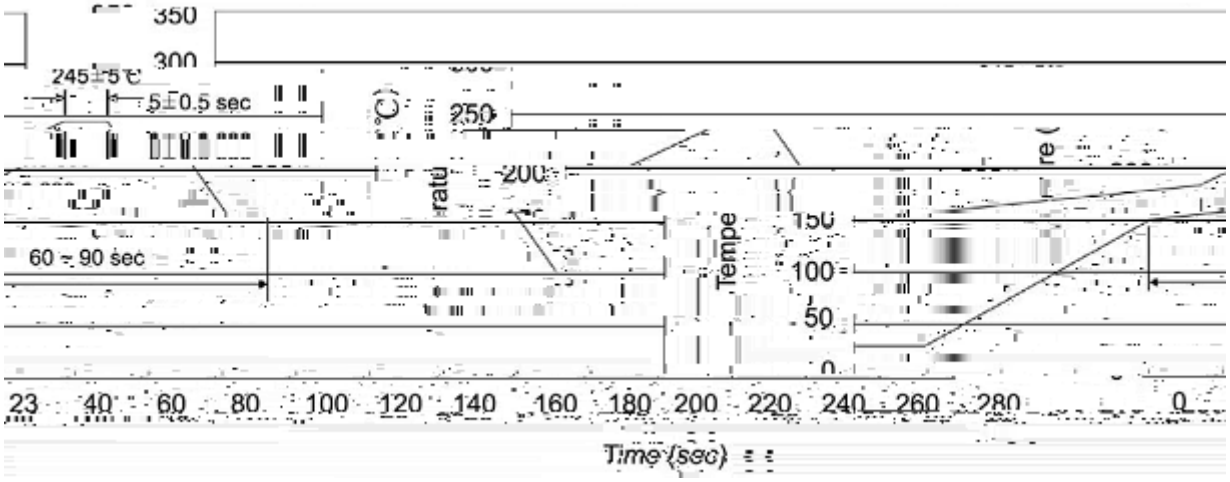
CT:

****

Note:

BR:	Company Code
LV20100	Product Type.
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1 25 150 60