

/ Descriptions

TO-263

Schottky Diode in a TO-263 Plastic Package.

/ Features

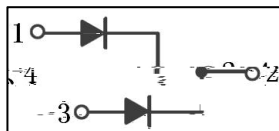
Low forward voltage drop, low power losses, High efficiency operation.

/ 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($T_a=25$)

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($T_a=25$)

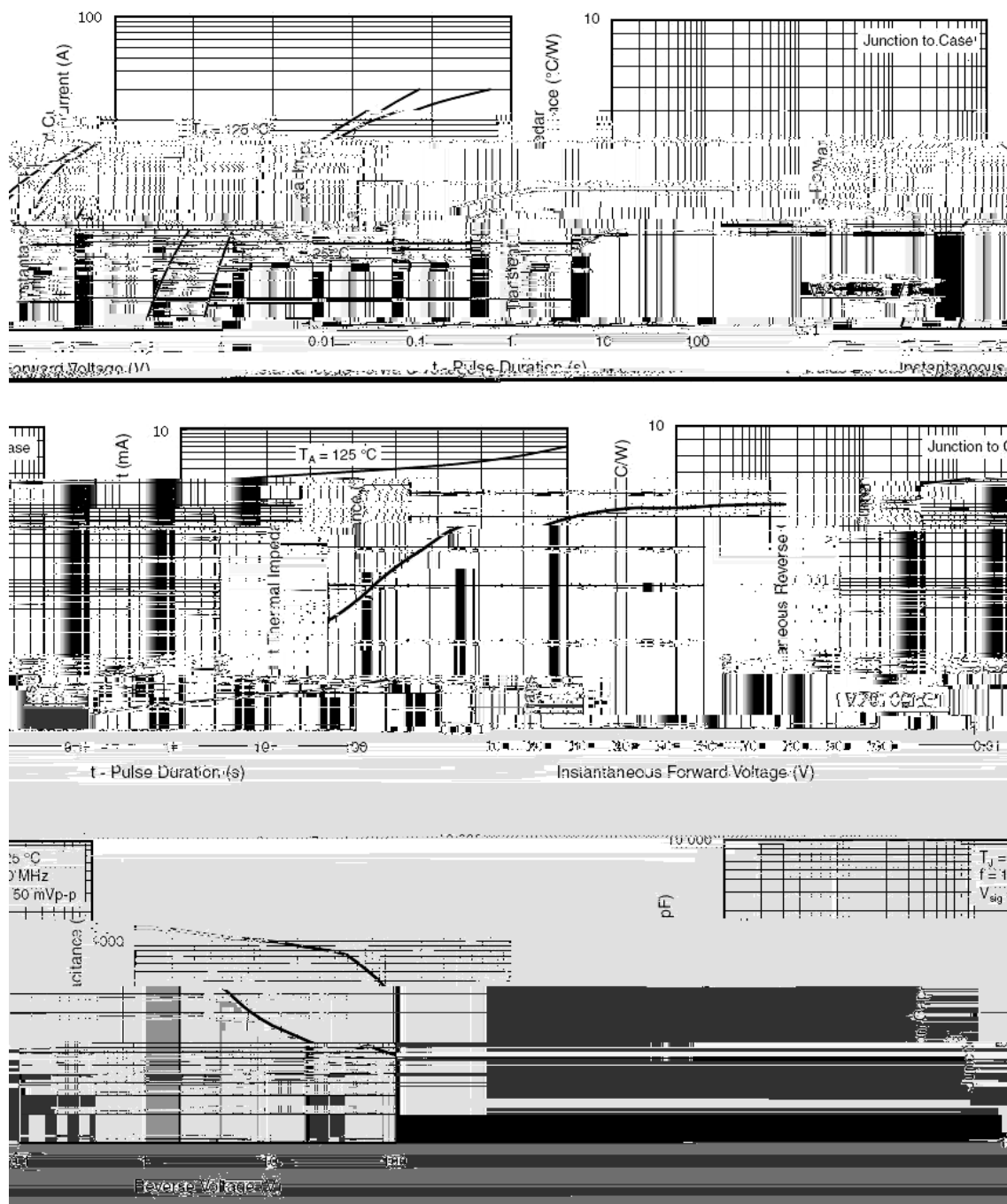
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R=1mA$ $T_a=25$	100			V
Forward Voltage	V_{FM}	$I_F=5.0A$ $T_a=25$		0.55	0.65	V
		$I_F=10A$ $T_a=25$		0.73	0.79	V
		$I_F=5A$ $T_a=125$		0.50	0.60	V
		$I_F=10A$ $T_a=125$		0.62	0.68	V
Instantaneous Reverse Current	I_R Note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

/Notes

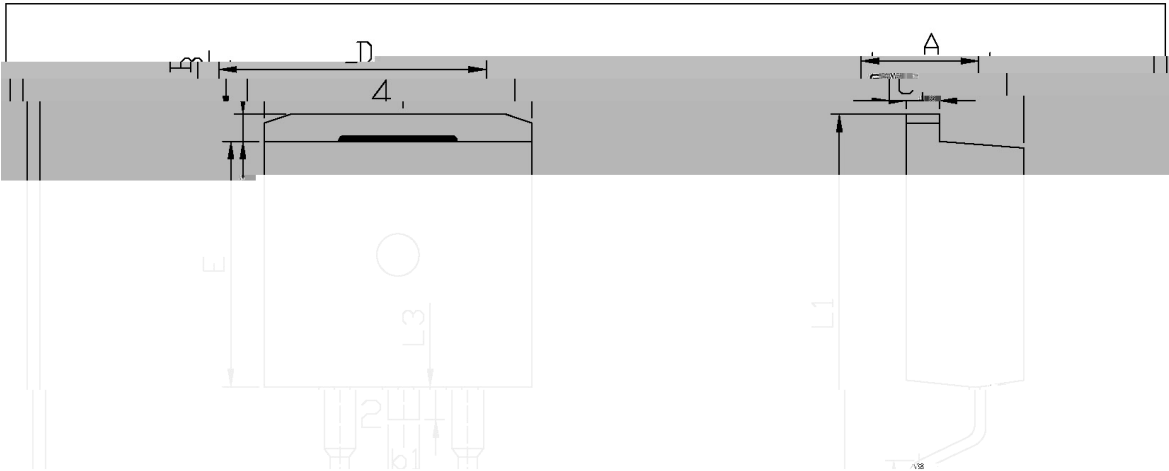
1. /Short duration pulse test used to minimize self-heating effect.

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

/ Electrical Characteristic Curve

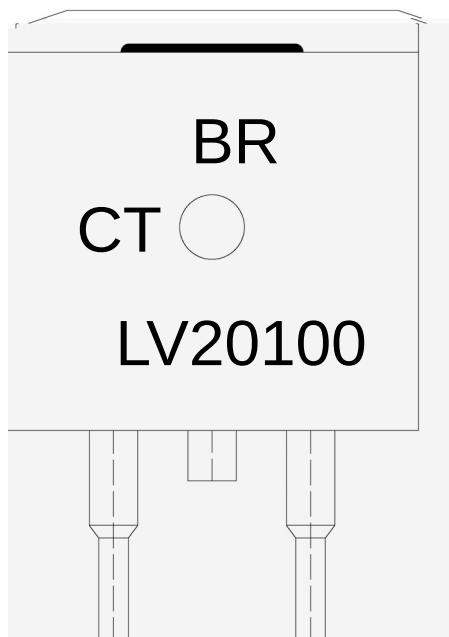


/ Package Dimensions



MAX		Min		Max		Min	
a		A		B		C	
2.74		1.00		1.40		2.34	
2.88		2.90		2.90		2.92	
5.00	16.00	b1	1.15	1.35	L1		
2.21	2.84	b2	0.40	0.80	L2		
1.20	1.60	C	1.20	1.40	L3		
		D	0.80	10.20			
		ТП-263					

/ Marking Instructions



BR

LV20100

CT:

Note:

BR:

Company Code

LV20100

Product Type.

CT:

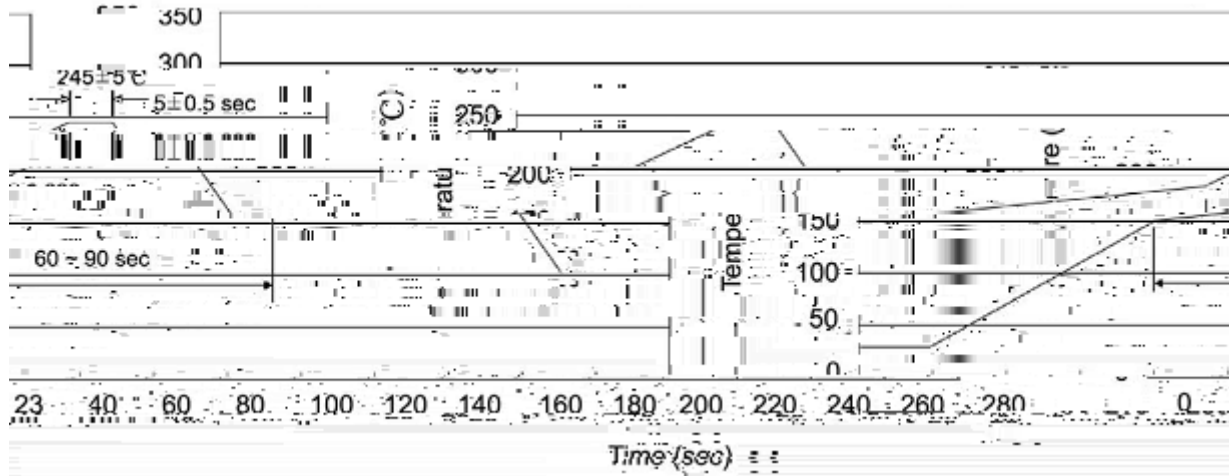
Internal Structure

****:

Lot No. Code, code change with Lot No.



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



Note:

1 25 150 60