

# LV20Q100F

Rev.F Mar.-2016

## / Descriptions

TO-220F

Schottky Barrier Diode in a TO-220F Plastic Package.

## / Features

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

## / Applications

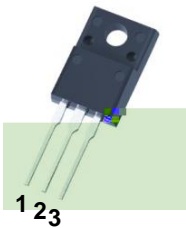
OR-ing      DC-DC

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<sub>FE</sub> Classifications & Marking

See Marking Instructions.

# LV20Q100F

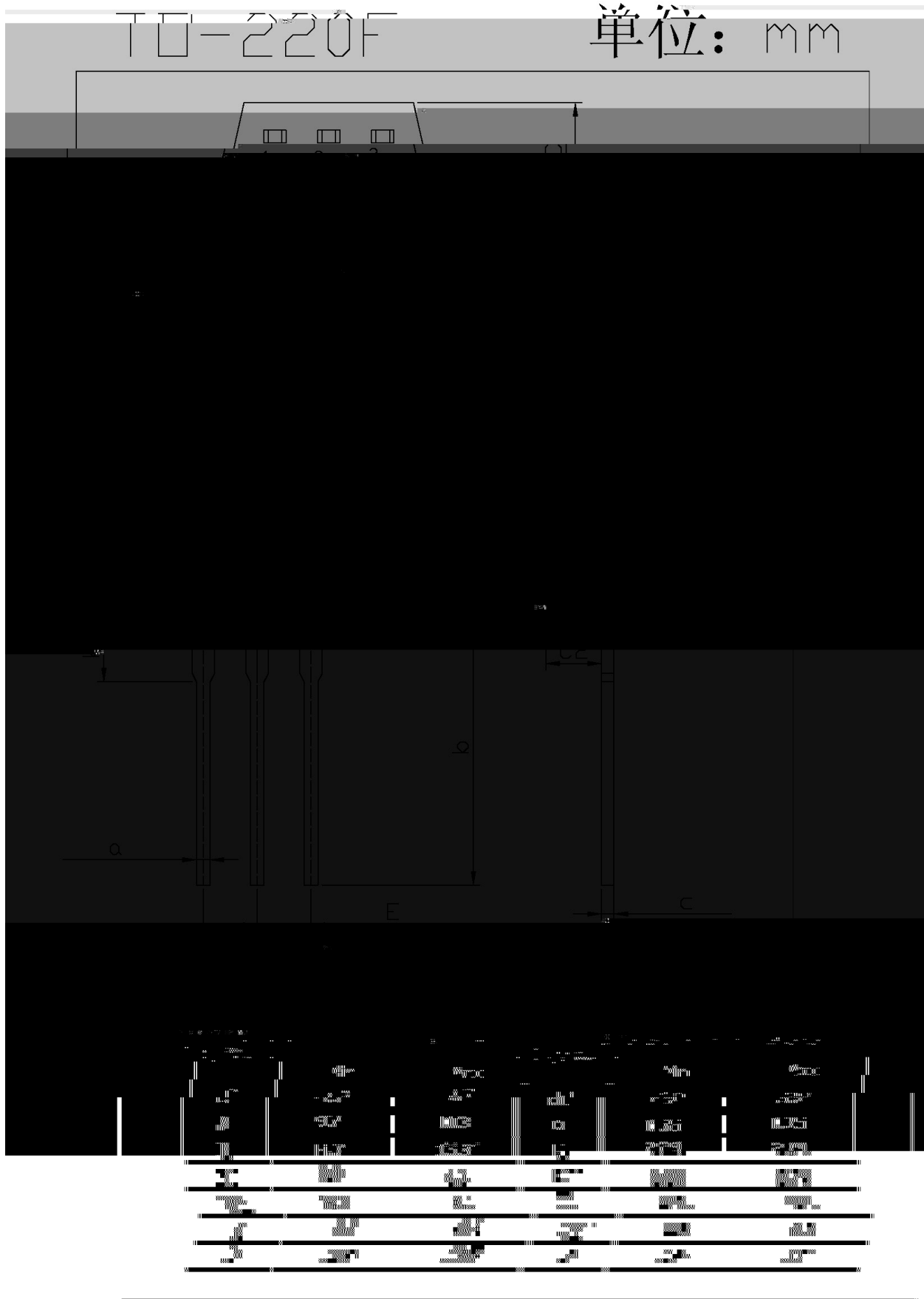
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Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	$V_{RM}$ $V_{RSM}$	100	V
Average Rectified Forward Current	$I_{F(AV)}$	1×20	A
Non Repetitive Peak Surge Current	$I_{FSM}$	160	A
Thermal Resistance Junction to Case	$R_{Jc}$	4.6	/W
Junction and Storage Temperature Range	$T_j$ $T_{stg}$	-40 +150	

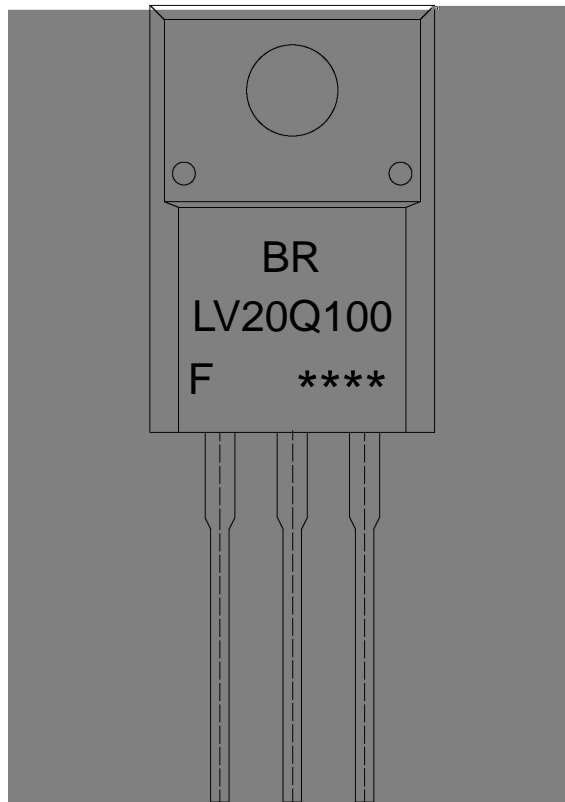
Parameter	Symbol	R				
Breakdown Voltage	$V_{BR}$	$I = 1mA(Ta=25 \text{ } )$	100			V
Forward Voltage	$V_F$	$I_F = 5A(Ta=25 \text{ } )$		0.516		V
		$I_F = 10A(Ta=25 \text{ } )$			0.60	V
		$I_F = 5A(Ta=125 \text{ } )$		0.455		V
		$I_F = 10A(Ta=125 \text{ } )$			0.58	V
Instantaneous Reverse Current	$I_R$ Note 1	$V_R=100V(Ta=25 \text{ } )$			150	A A

**LV20Q100F**  
Rev.F Mar.-2016

/ Package Dimensions



/ Marking Instructions



BR

LV20Q100

F:

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Note:

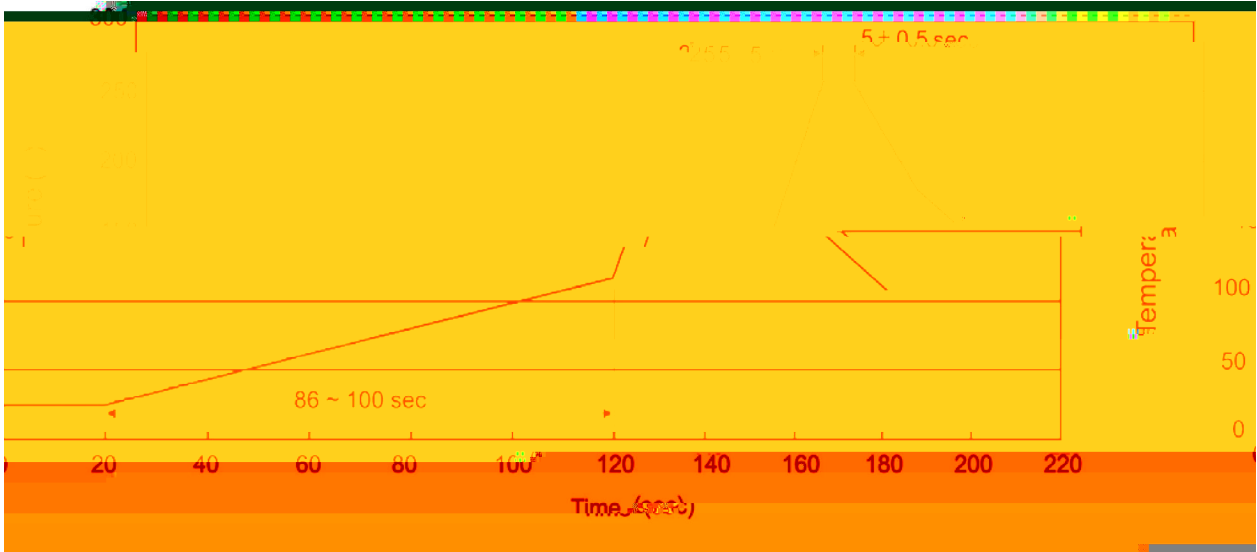
BR: Company Code

LV20Q100: Product Type

F: Package Code

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

**( ) / Temperature Profile for Dip Soldering(Pb-Free)**



**Note:**

- |   |       |     |           |          |   |
|---|-------|-----|-----------|----------|---|
| 1 | 25    | 150 | 60        | 90sec;   | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 255±5 |     | 5±0.5sec; |          | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 |       |     | 2         | 10 /sec. | 3. Cooling Speed: 2~10 /sec.            |

**/ Resistance to Soldering Heat Test Conditions**

270±5                      10±1 sec.                      Temp.:270±5                      Time:10±1 sec

**/ Packaging SPEC.**

/ BULK

Package Type	Units	Dimension	(unit mm <sup>3</sup> )
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