

/ Descriptions

TO-220FL

Schottky Diode in a TO-220FL Plastic Package.

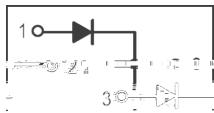
/ Features

Low power loss,high efficiency.

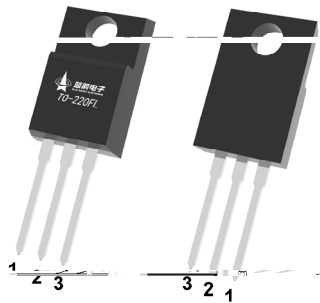
/ Applications

For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit



/ Pinning



PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}	200	V
Peak Repetitive Forward Current	I_{FRM}	20	A
Average Rectified Forward Current	$I_{F(AV)}$	10	A
	$I_{F(AV) \text{ total}}$	20	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Peak Repetitive Reverse Current	I_{RRM}	1.0	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0	/W
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	

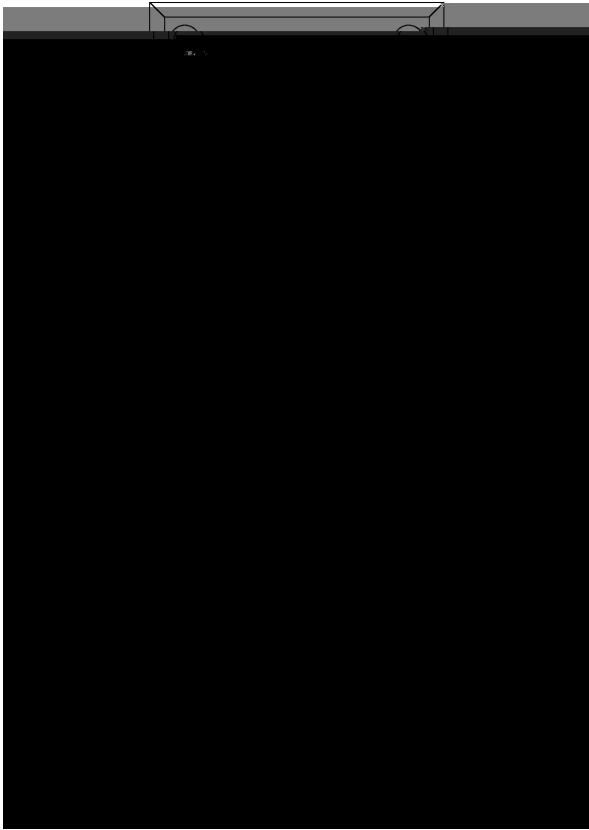
/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10\text{A}(T_j=25^\circ\text{C})$			0.9	V
		$I_F=10\text{A}(T_j=125^\circ\text{C})$			0.8	V
		$I_F=20\text{A}(T_j=25^\circ\text{C})$			1.0	V
		$I_F=20\text{A}(T_j=125^\circ\text{C})$			0.9	V
Instantaneous Reverse Current	I_R	$V_R=200\text{V}(T_j=25^\circ\text{C})$			1.0	mA
		$V_R=200\text{V}(T_j=125^\circ\text{C})$			50	mA
Voltage Rate of Change	dv/dt				10000	V/ μs

/ Electrical Characteristic Curve



/ Marking Instructions



BR
MBRL20200
CT:

Note:
BR: Company Code
MBRL20200: Product Type
CT: Internal Structure
****: 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
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/ Packaging SPEC.

/ TUBE

Package Type	Units	Dimension	(unit mm ³)
	Units/Tube		