

/ Descriptions

Schottky Barrier Diode in a TO-251 Plastic Package.

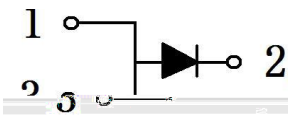
/ Features

Low power loss, high efficiency.

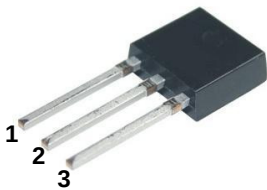
/ Applications

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

/ h_{FE} Classifications & Marking

See Marking Instructions.

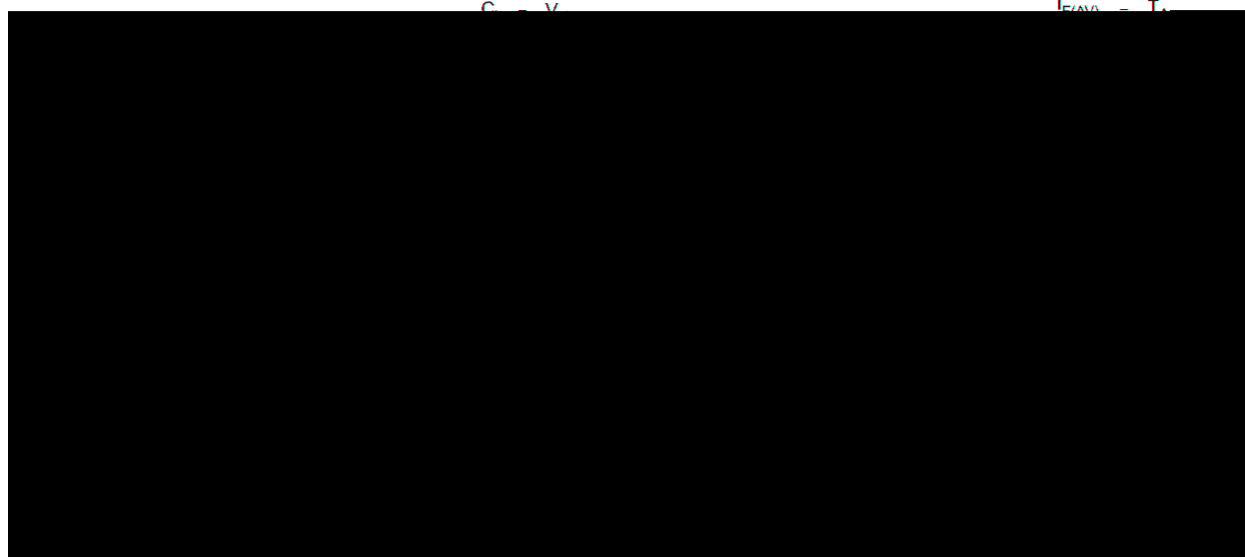
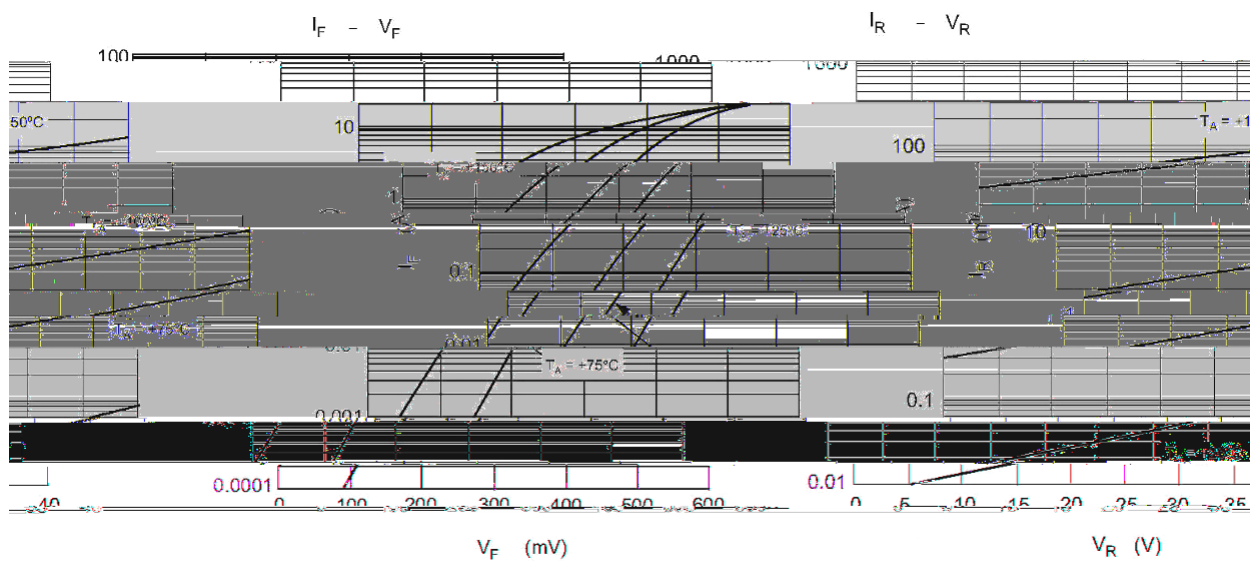
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Non Repetitive Peak Surge Current	I_{FSM}	100	A
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	

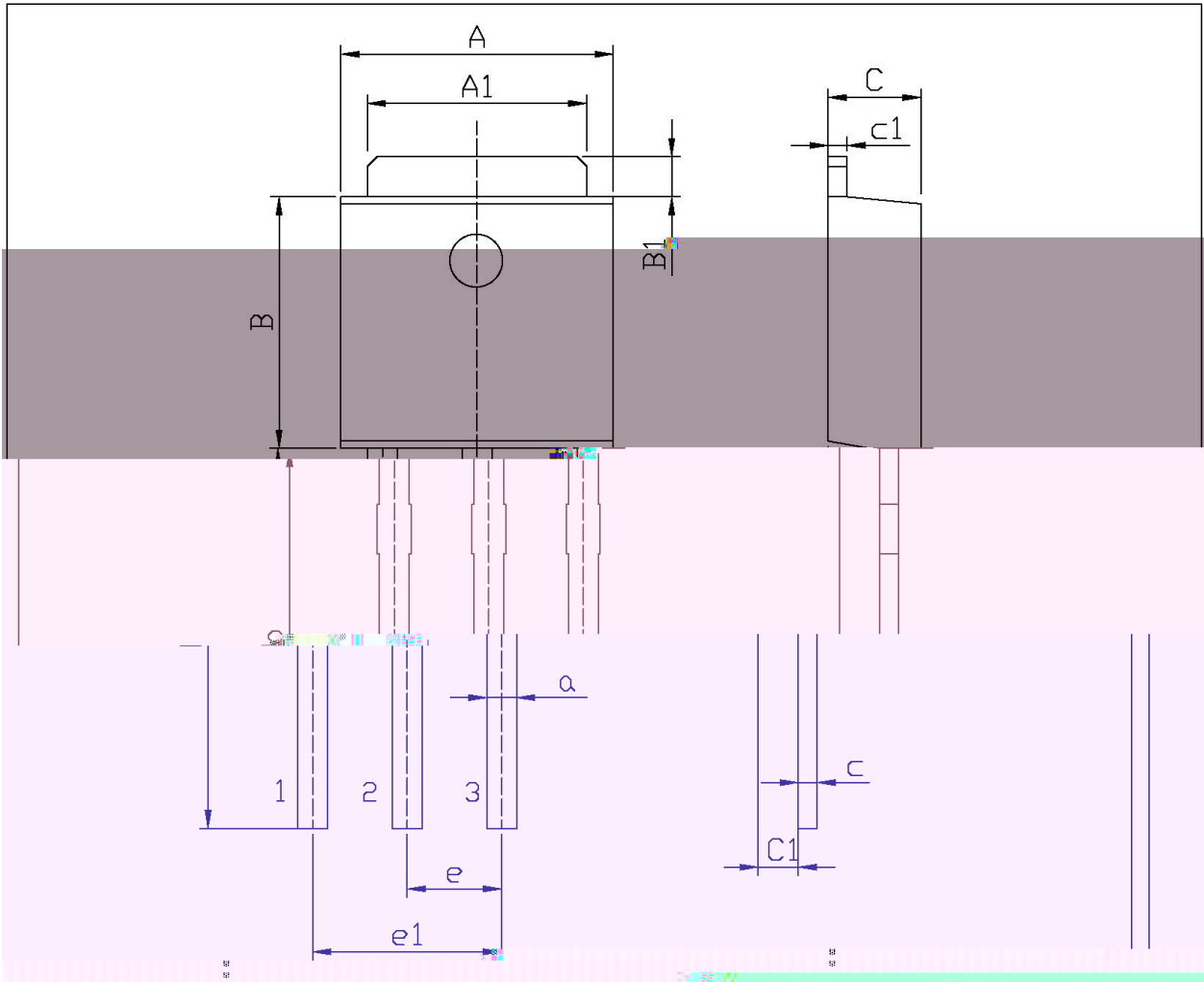
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R = 1mA$	40			V
Peak Forward Voltage	V_{FM}	$I_F = 8.0A(T_C = 25^\circ C)$		0.45	0.49	V
		$I_F = 8.0A(T_C = 125^\circ C)$			0.41	V
		$I_F = 10A(T_C = 25^\circ C)$		0.47	0.51	V
Instantaneous Reverse Current	I_{RM}	$V_R = 35V(T_C = 25^\circ C)$		0.1	0.3	mA
		$V_R = 35V(T_C = 125^\circ C)$		12.5	25	mA
Voltage Rate of Change	dv/dt				10000	V/ s

/ Electrical Characteristic Curve

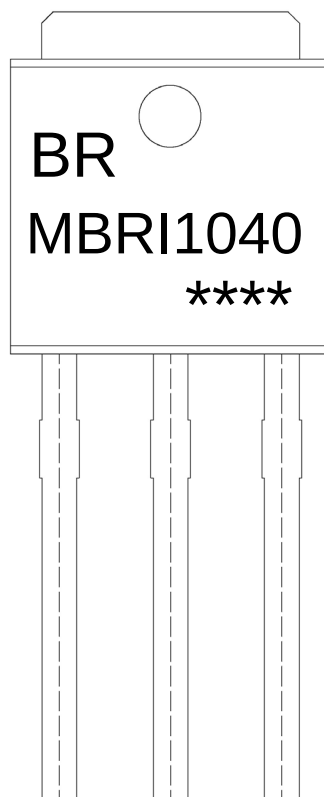


/ Package Dimensions



Dimensions in Millimeters		Symbol	Dimensions in Millimeters		Symbol
Min	Max		Min	Max	
6.45	6.75	a	0.50	0.75	A
5.10	5.50	b	9.00	9.40	A1

/ Marking Instructions



BR

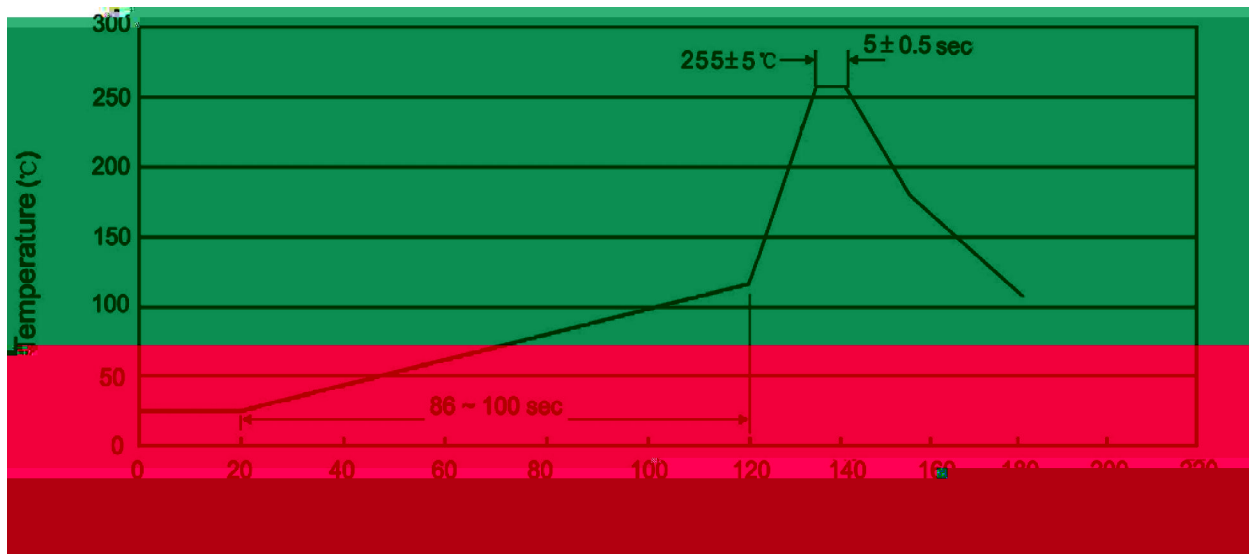
Note:

BR: Company Code

Product Type.

****: 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只套管	套管盒	只盒	盒箱	只箱	套管	盒	箱

/ Notices