

/ Descriptions

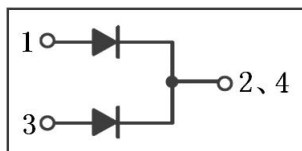
Schottky Barrier Diode in a TO-263 Plastic Package.

/ Features

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

/ Applications

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.

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{DC}	45	V
RMS Reverse Voltage	V_{RMS}	31.5	V
Average forward rectified Current	I_F	2 X 10	A
Non Repetitive Peak Surge Current	I_{FSM}	160	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40~+150	

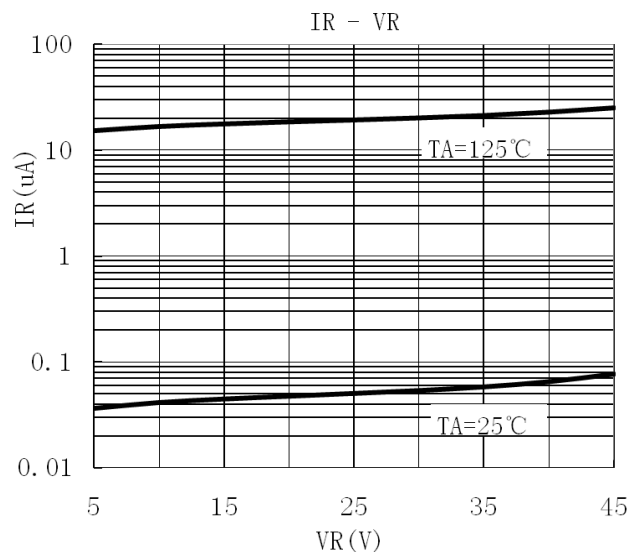
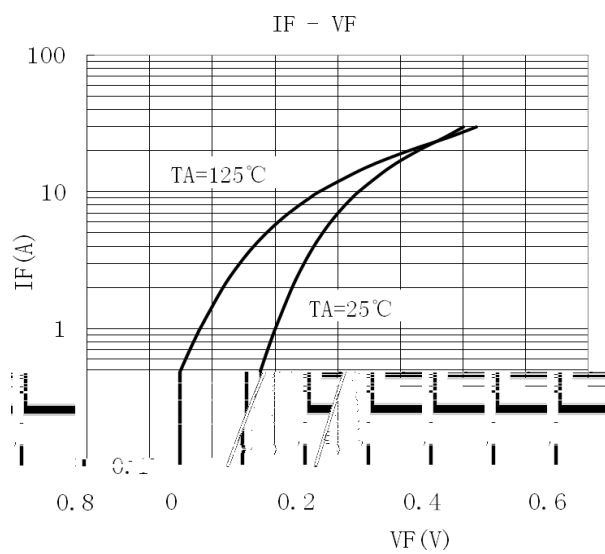
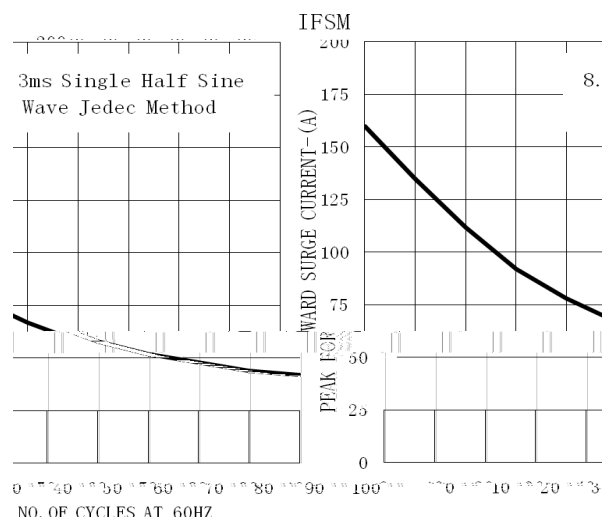
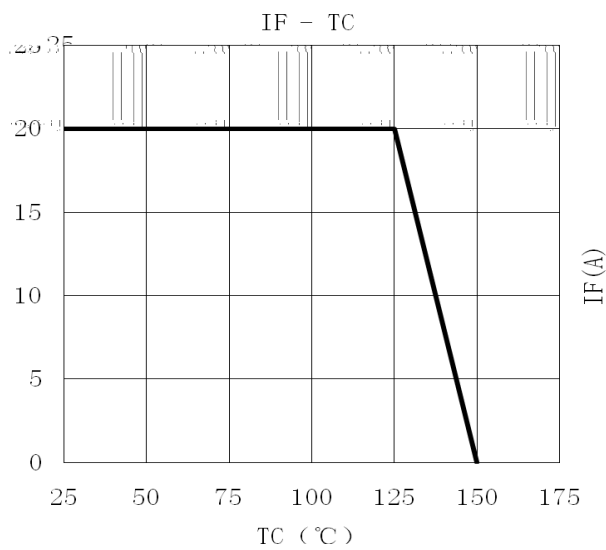
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R = 1mA$ $T_a = 25$	45			V

 I_F

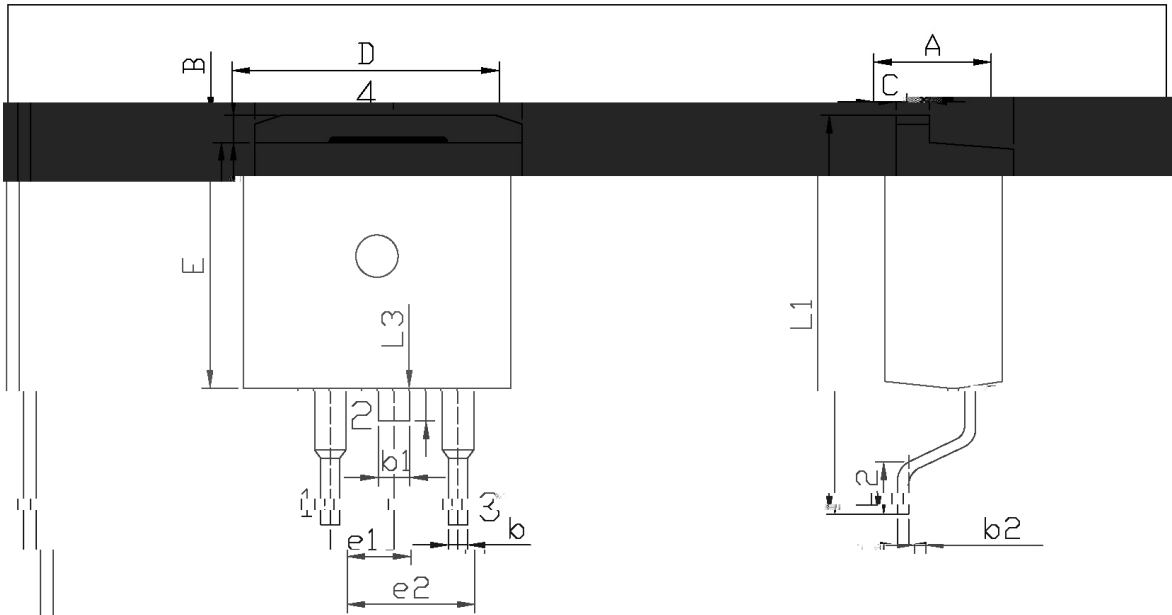
Forward Voltage

 V_{FM}

/ Electrical Characteristic Curve



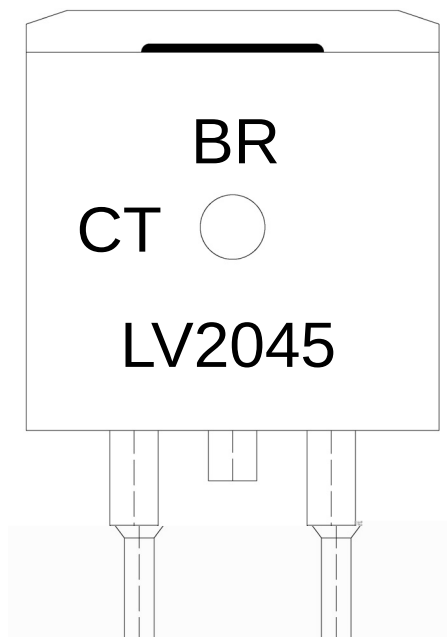
/ Package Dimensions



单位: mm

Dimensions In Millimeters				Dimensions In Millimeters				
Symbol	Min	Max	Symbol	Min	Max	Symbol	Min	Max
A	4.30	4.70	E	9.00	9.40			
B	1.00	1.40	F	0.10	0.20			
C	0.50	0.60	G	0.10	0.20			
D	0.50	0.60	H	0.10	0.20			
L	0.50	0.60	I	0.10	0.20			
L1	0.50	0.60	J	0.10	0.20			
L3	0.50	0.60	K	0.10	0.20			
b1	0.50	0.60	L	0.10	0.20			
b2	0.50	0.60	M	0.10	0.20			
e1	0.50	0.60	N	0.10	0.20			
e2	0.50	0.60	O	0.10	0.20			

/ Marking Instructions



Note:

BR:

Company Code

Product Type.

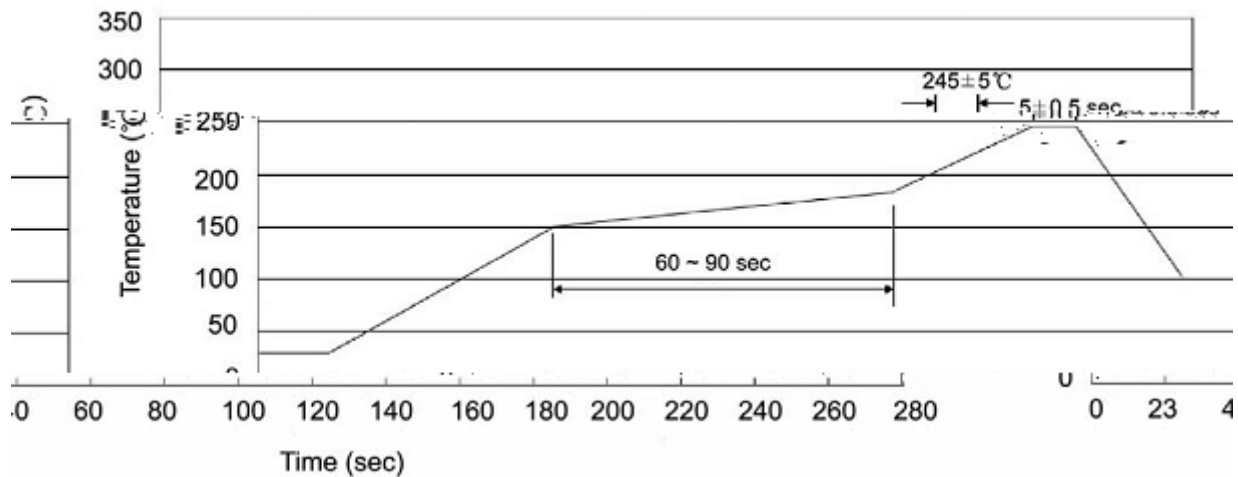
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Internal Structure

****:

Lot No. Code, code change with Lot No.

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



Note:

- | | | | | | |
|---|-----|-----|----|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245 | 5 | 5 | 0.5sec; | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260 ±5 10 ±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		

/ TUBE

Package Type	Units					Dimension (unit mm ³)		

/ Notices