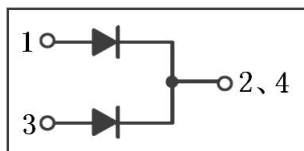


Schottky Barrier Diode in a TO-263 Plastic Package.

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

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.



PIN1 Anode

PIN 2 4 Cathode

PIN 3 Anode

See Marking Instructions.

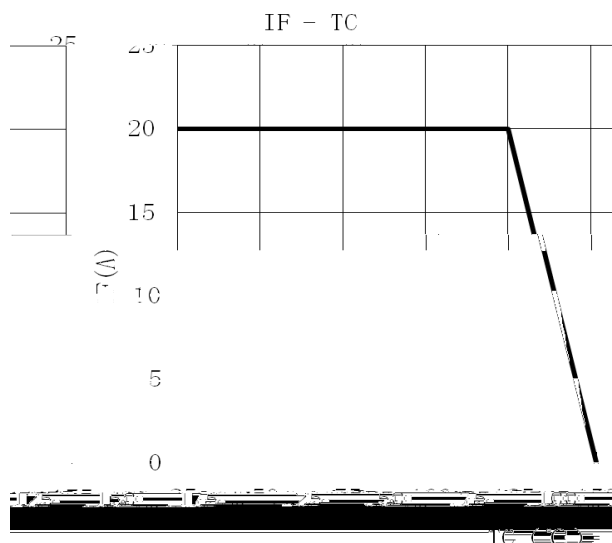
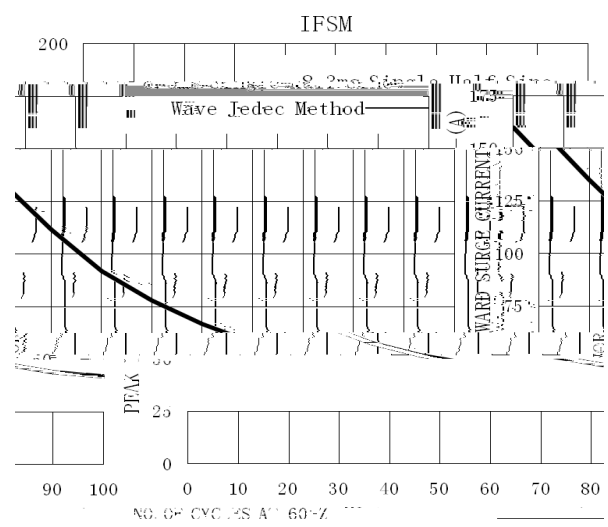
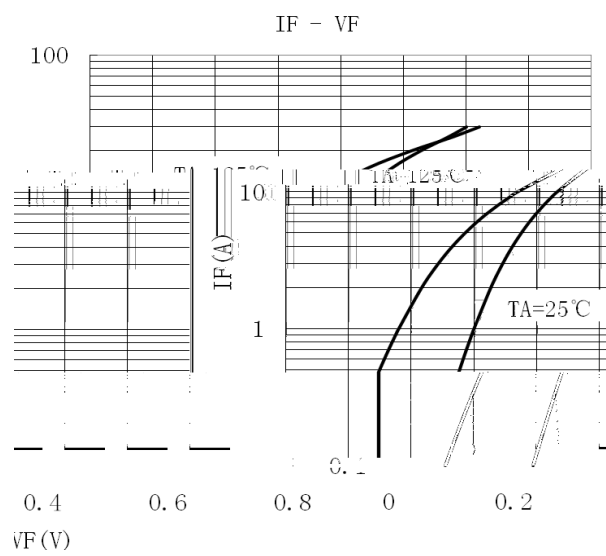
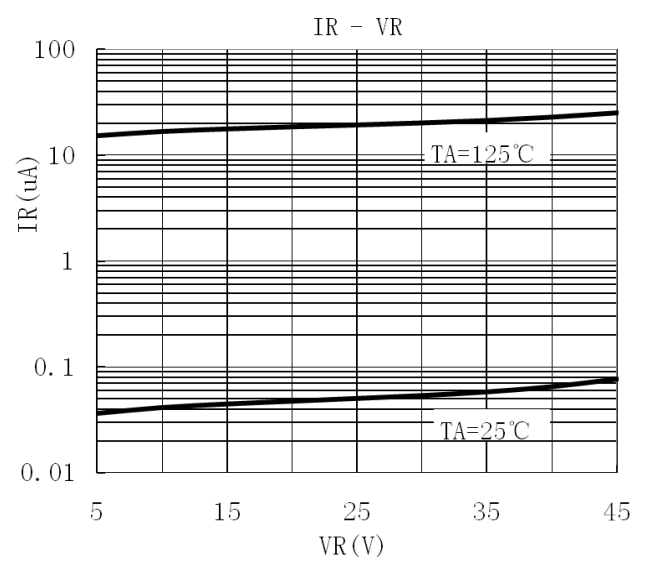
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{DC}	45	V
RMS Reverse Voltage	V_{RMS}	31.5	V
Average forward rectified Current	I_F	2 X 10	A
Non Repetitive Peak Surge Current	I_{FSM}	160	A
Thermal Resistance Junction to Case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

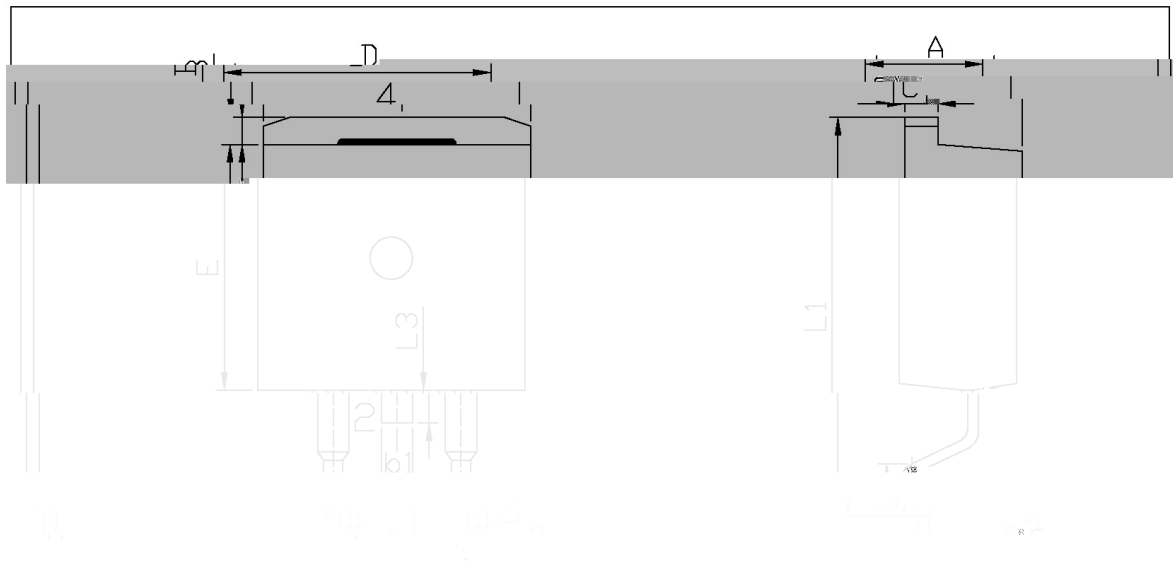
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R=1mA$ $T_a=25$	45			V
Forward Voltage	V_{FM}	$I_F=5.0A$ $T_a=25$		0.38		V
		$I_F=10A$ $T_a=25$		0.43	0.48	V
		$I_F=5.0A$ $T_a=125$		0.28		V
		$I_F=10A$ $T_a=125$		0.37	0.45	V
Instantaneous Reverse Current	I_R Note 1	$V_R=45V$ $T_a=25$		80	200	μA
		$V_R=45V$ $T_a=125$		30	100	mA

/Notes

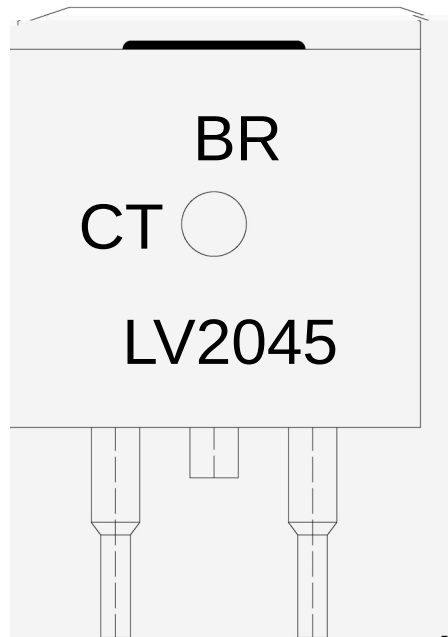
/Short duration pulse test used to minimize self-heating effect.

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





Max	Min	Max	Min
9.40	4.30	4.70	9.00
2.74	1.00	1.40	2.24
16.00	b1	1.15	1.35
2.84	b2	0.10	0.30
1.60	C	1.20	1.40
	D	9.30	10.20
TP-263			



Note:

BR:

Company Code

Product Type.

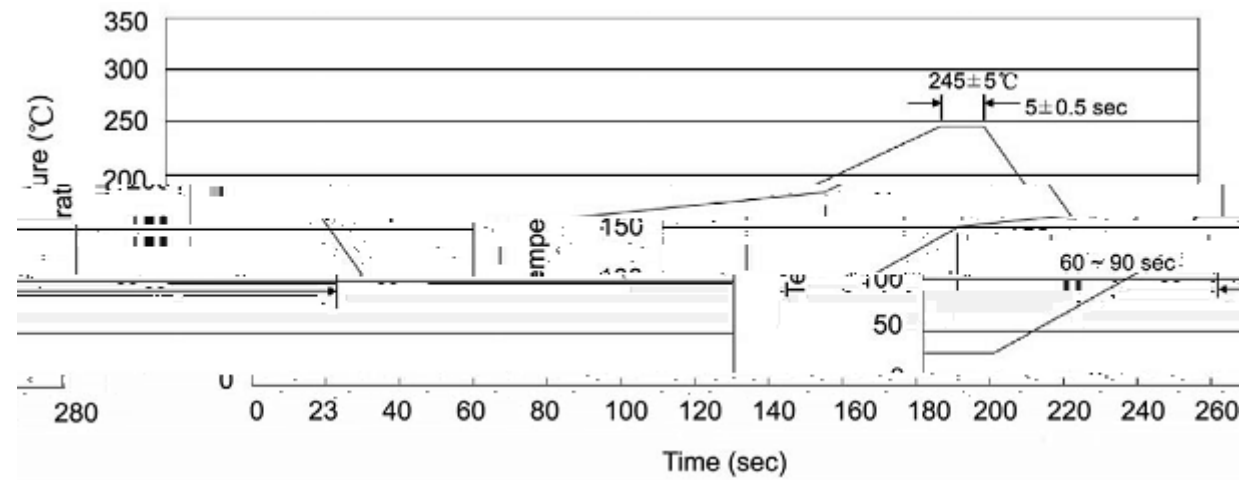
:

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 °C , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245±5 °C , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °/sec.

260 ±5

10 ±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
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