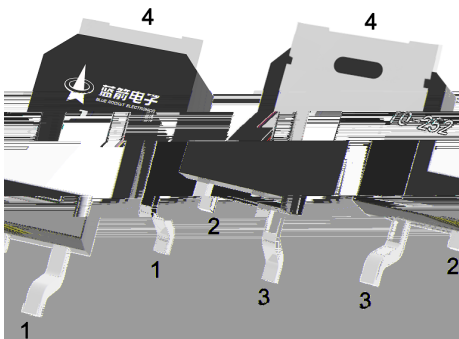
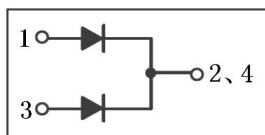


Rev.H Aug.-2025

Schottky Diode in a TO-252 Plastic Package.

Low power loss, high efficiency, HF Product.

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



PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

See Marking Instructions.

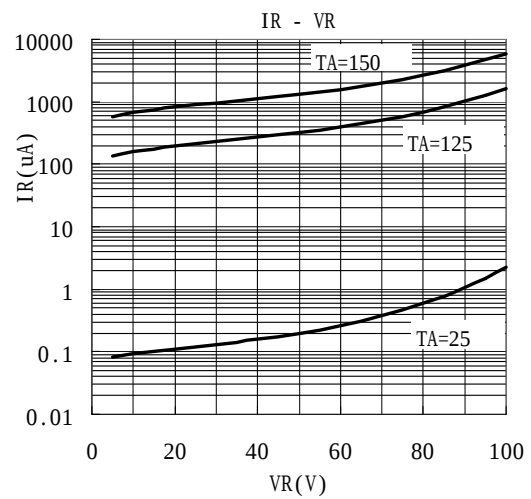
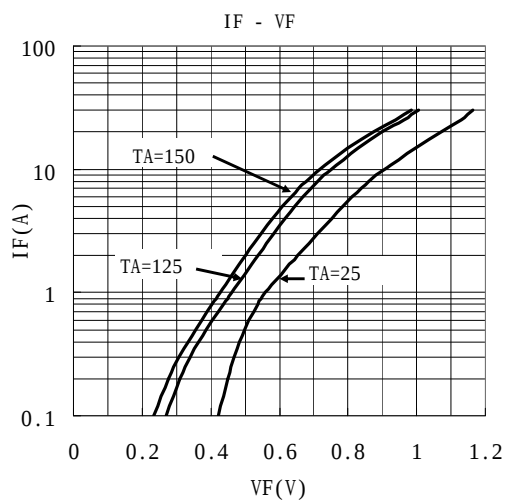
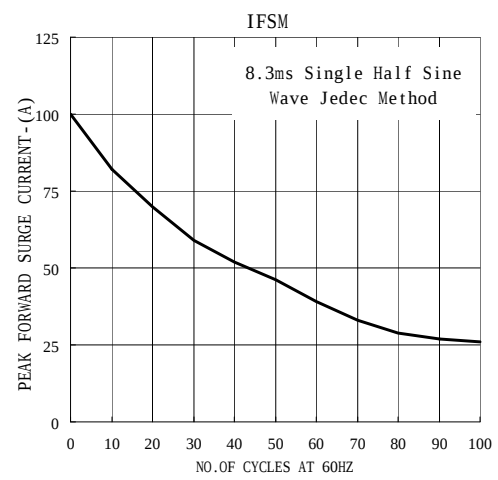
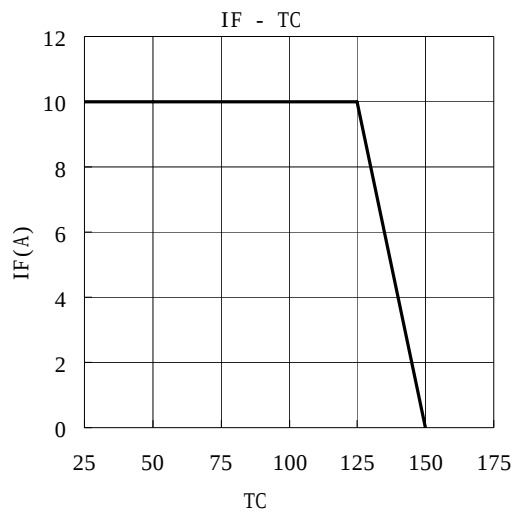
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{RM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2×5	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Thermal resistance, junction to case	$R_{\theta Jc}$	6.5	/W
Junction Temperature Range	$T_{J\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	

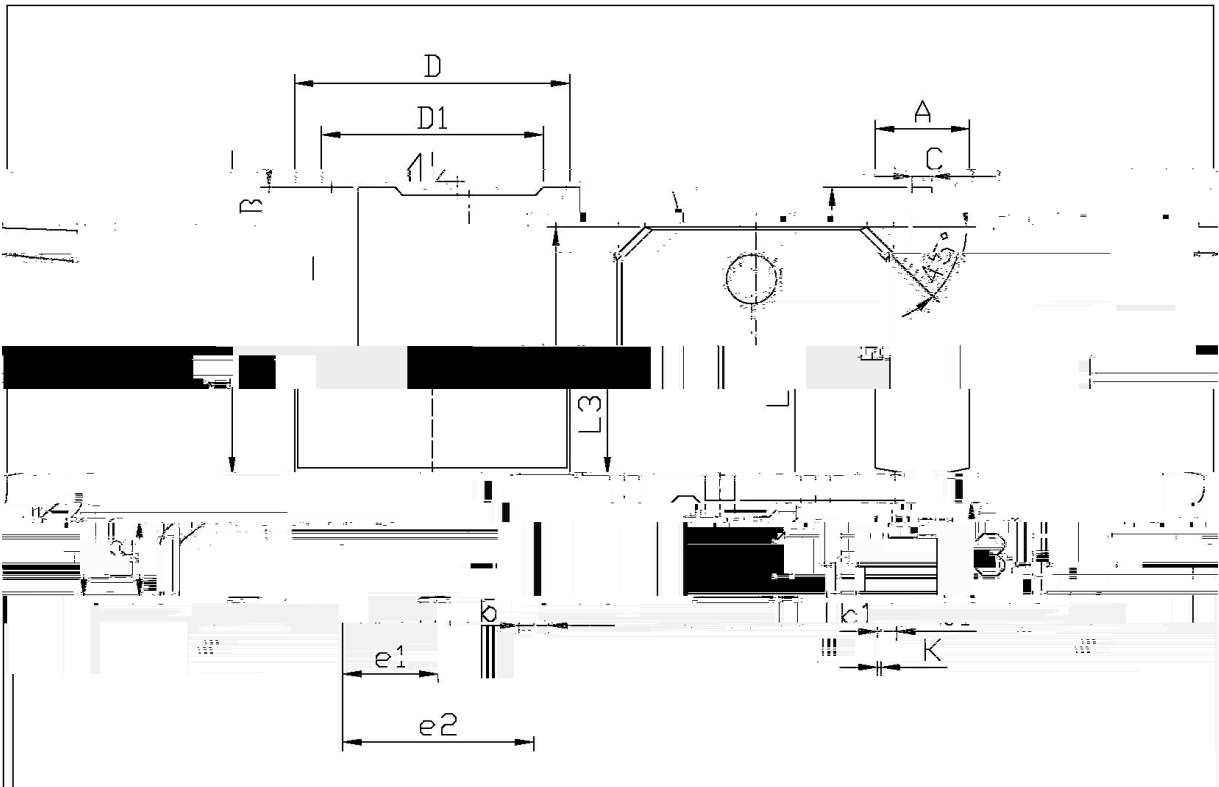
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=0.3mA$	100			V
Forward Voltage	V_F	$I_F=5A$ $T_J=25$			0.85	V
		$I_F=5A$ $T_J=125$			0.75	V
		$I_F=10A$ $T_J=25$			0.95	V
		$I_F=10A$ $T_J=125$			0.85	V
Instantaneous Reverse Current	I_R Note 1	$V_R=100V$ $T_J=25$			10	μA
		$V_R=70V$ $T_J=125$			1.0	mA
		$V_R=100V$ $T_J=125$			5.0	mA

/Notes

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

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



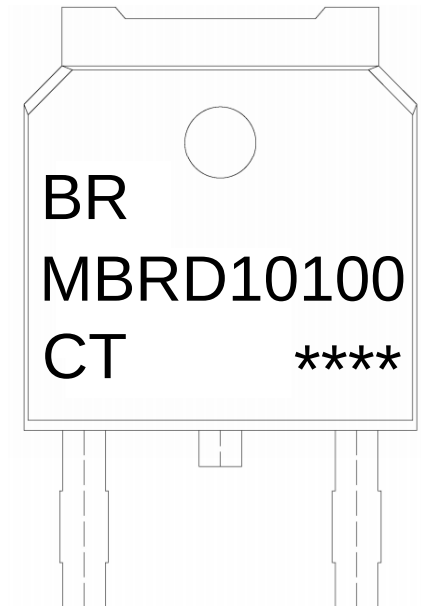


单位: mm

Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
E	5.95	6.25	A	2.20	2.40
e1	2.20	2.34	B	0.05	0.25
e2	0.05	0.25	b	0.05	0.25
L3	0.45	0.55	K	0.00	0.10
K	0.00	0.10	D1	6.45	6.75
			D1	5.10	5.50

-252

T0



Note:

BR:

Company Code

MBRD10100

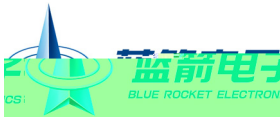
Product Type Code

CT:

Internal Structure

*****:

Lot No. Code, code change with Lot No.



Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , 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.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units				Dimension (unit mm ³)		