

/ Descriptions

TO-252

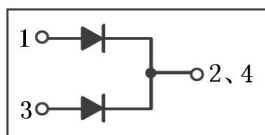
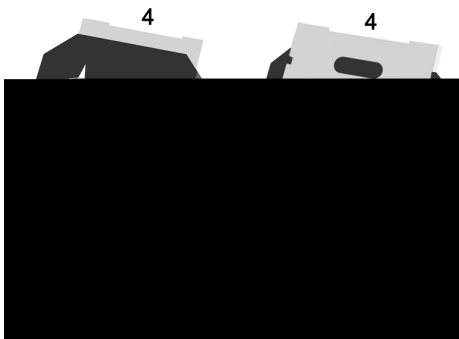
Schottky Diode in a TO-252 Plastic Package.

/ Features

Low power loss, high efficiency, HF Product.

/ Applications

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

/ Equivalent Circuit**/ Pinning**

PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

/ Marking

See Marking Instructions.

MBRD10100CT

Rev.H Aug.-2025



蓝箭电子
BLUE ROCKET ELECTRONICS

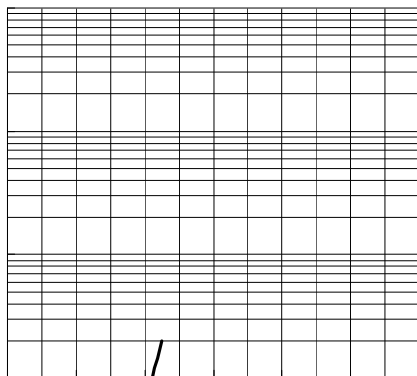
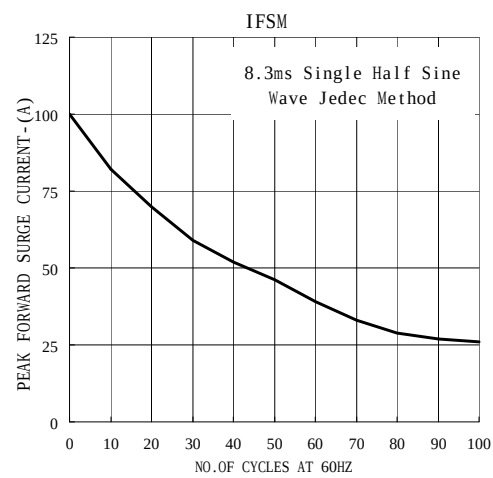
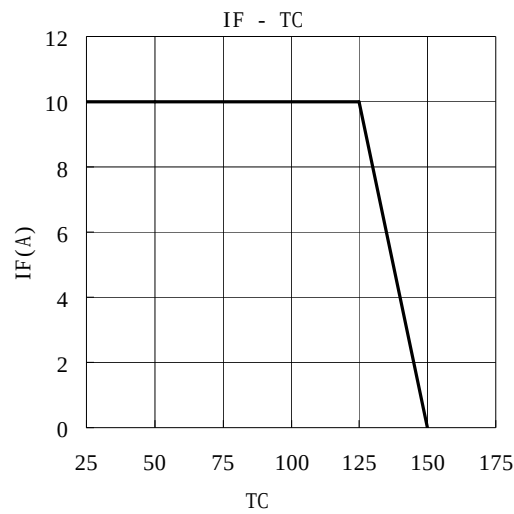
DATA SHEET

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	

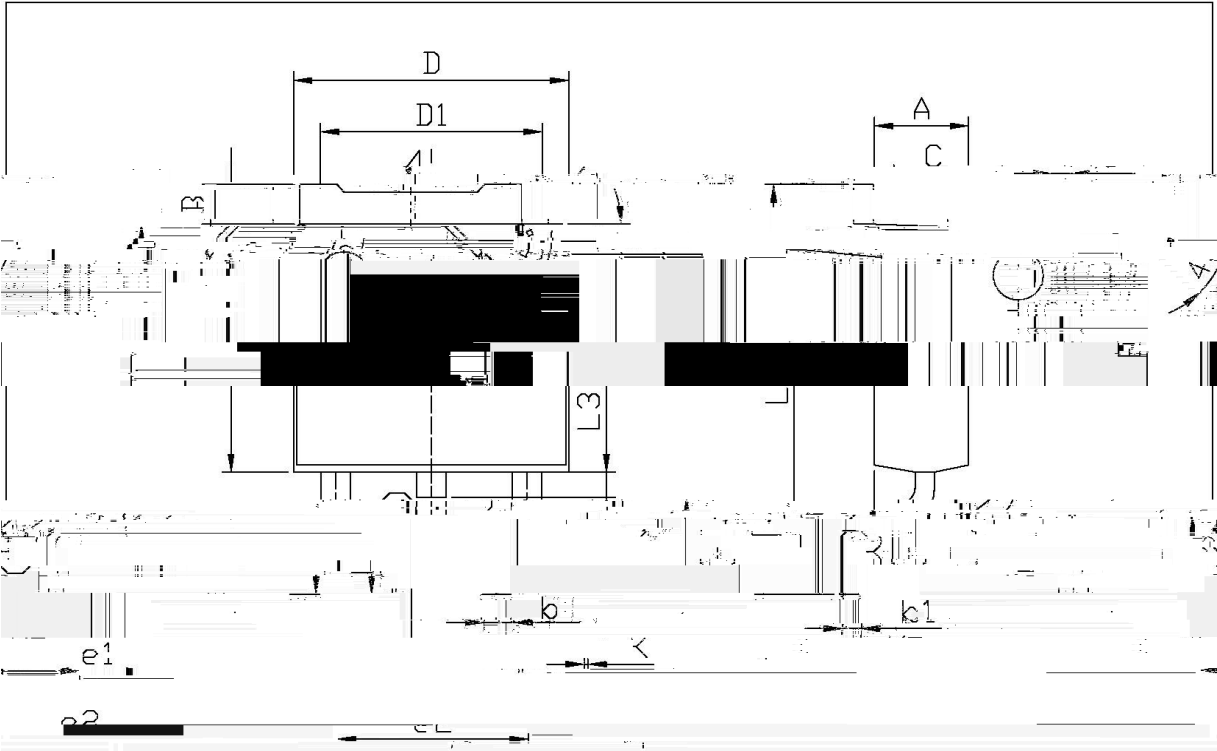
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=0.3mA$	100			V
Forward Voltage	V_F	$I_F=5A$ $T_J=25$			0.85	V
		$I_F=5A$ $T_J=125$			0.75	V
		$I_F=10A$ $T_J=25$			0.95	V
		$I_F=10A$ $T_J=125$			0.85	V
Instantaneous Reverse Current	I_R	$V_R=100V$ $T_J=25$			10	μA
		V_{RPea4} 314 339.7404 $T_m(R)$ $T_{j10.49580}$ 741 $T_{f77.02}$ 343.98 358.700				

Note 1

/ Electrical Characteristic Curve



/ Package Dimensions

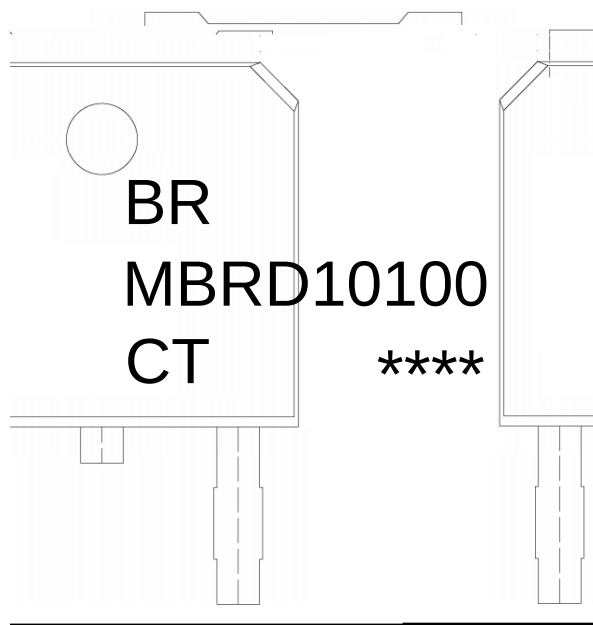


单位: mm

Dimensions in Millimeters				Dimensions in Millimeters			
Min	Max	Symbol	Min	Max	Symbol	Min	Max
0.95	1.05	e1	2.24	2.34	B	0.95	1.05
0.95	1.05	e2	4.13	4.23	Y	0.70	0.80
0.95	1.05	h	10.35	10.45	b1	0.45	0.55
0.95	1.05	L3	0.45	0.55	L3	0.45	0.55
0.95	1.05	D1	5.10	5.20	K	0.60	0.70
0.95	1.05	D	5.10	5.20	CL	0.60	0.70

TO-252

/ Marking Instructions



BR

MBRD10100

CT:

Note:

BR:

Company Code

MBRD10100

Product Type Code

CT:

Internal Structure

****:

Lot No. Code, code change with Lot No.

