/ Descriptions

TO-252

Schottky Diode in a TO-252 Plastic Package.

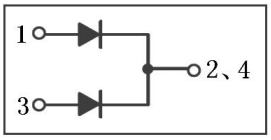
/ Features

Low power loss, high efficiency, HF Product.

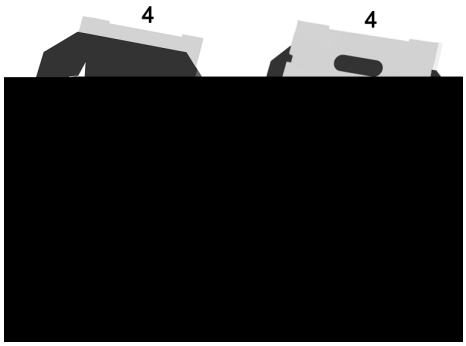
/ Applications

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

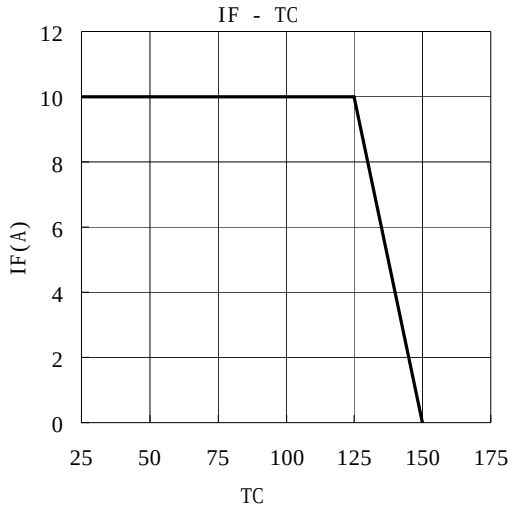
See Marking Instructions.

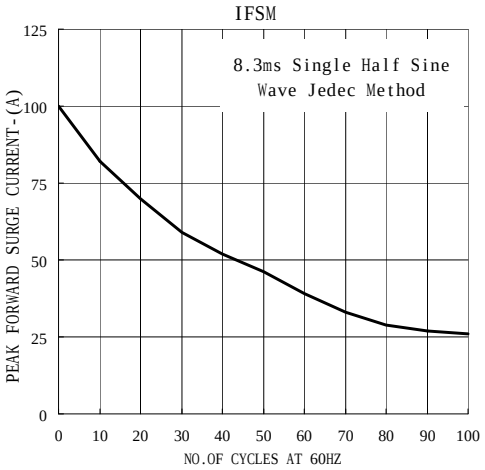
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{RM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2 × 5	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Thermal resistance, junction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

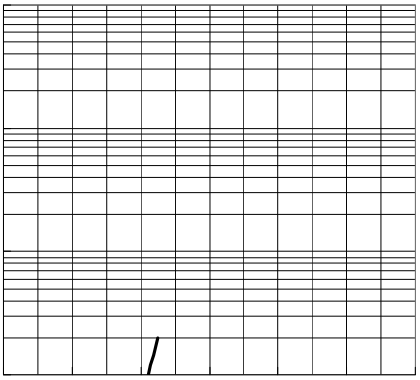
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	I_R=0.3mA	100			V
Forward Voltage	V_F	I_F=5A T_J=25			0.85	V
		I_F=5A T_J=125			0.75	V
		I_F=10A T_J=25			0.95	V
		I_F=10A T_J=125			0.85	V
Instantaneous Reverse Current	I_R Note 1	V_R=100V T_J=25			10	uA

V_RPea4 314 339.7404 Tm(R)Tj10.49580 741 Tf77.02 343.98 358.700

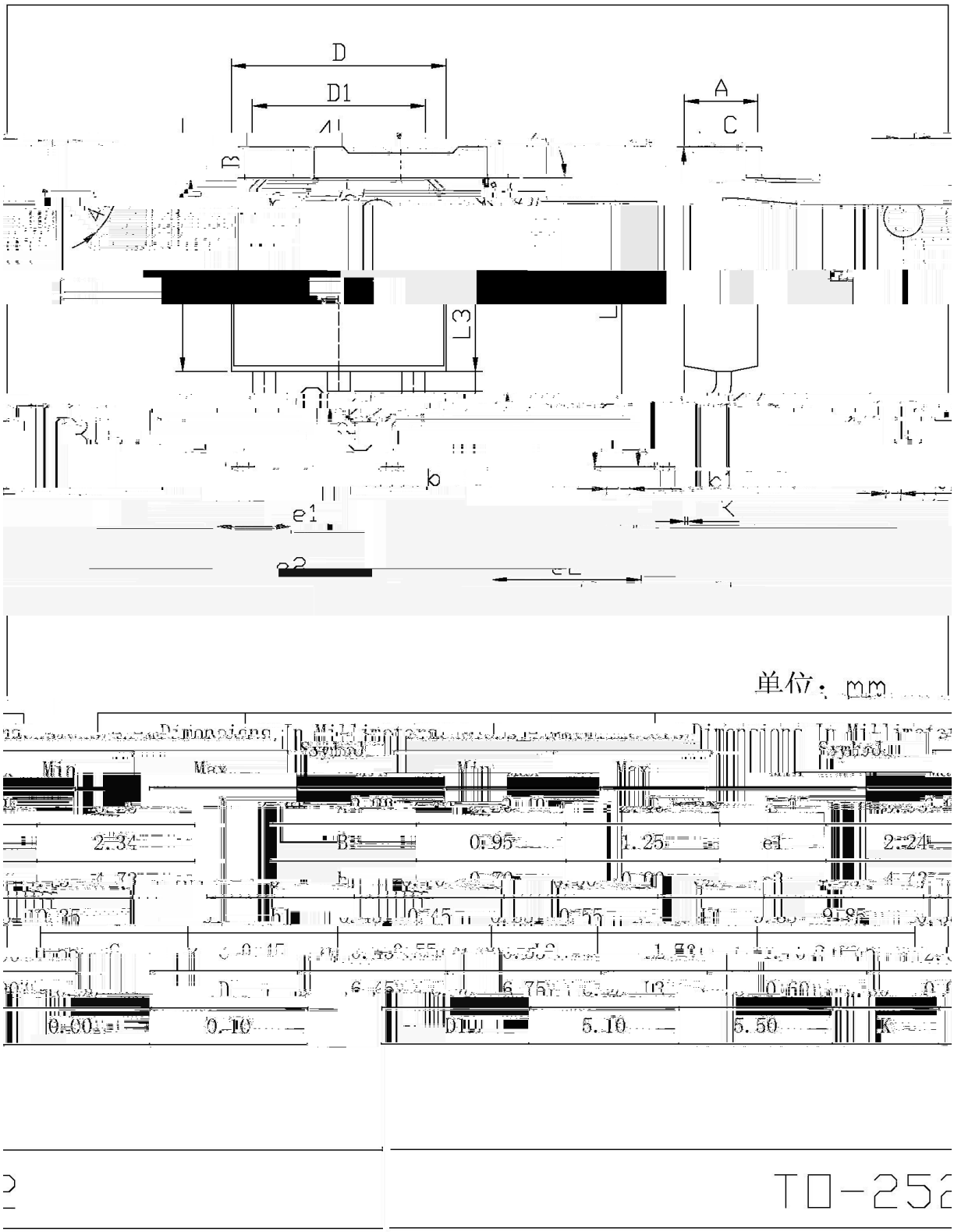
/ Electrical Characteristic Curve



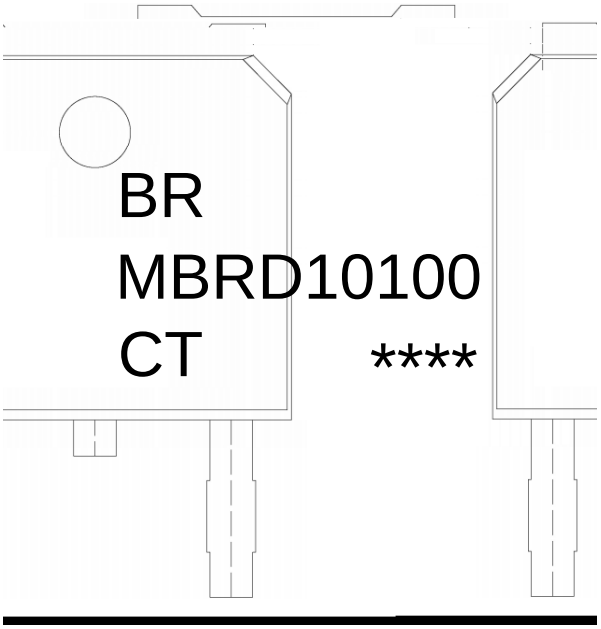




/ Package Dimensions



/ Marking Instructions



BR

MBRD10100

CT:

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Note:

BR:	Company Code
MBRD10100	Product Type Code
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

MBRD10100CT

Rev.H Aug.-2025