

MBR30100CT

Rev. A May.-2023



DATA SHEET

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
RMS Voltage	V_{RMS}	70	V
DC Blocking Voltage	V_{DC}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	15	A
	$I_{F(AV)(total)}$	30	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	200	A
Peak Repetitive Forward Current	I_{FRM}	30	A
Repetitive Peak Reverse Surge Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	1.2	/W
Junction Temperature Range	T_j	-55 175	
Storage Temperature Range	T_{stg}	-55 175	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=15A(T_j=25)$			0.91	V
		$I_F=15A(T_j=125)$			0.75	V
		$I_F=30A(T_j=25)$			1.05	V
		$I_F=30A(T_j=125)$			0.89	V
Instantaneous Reverse Current	I_R	$T_C=25$			0.05	mA
		$T_C=125$			20	mA

/Notes

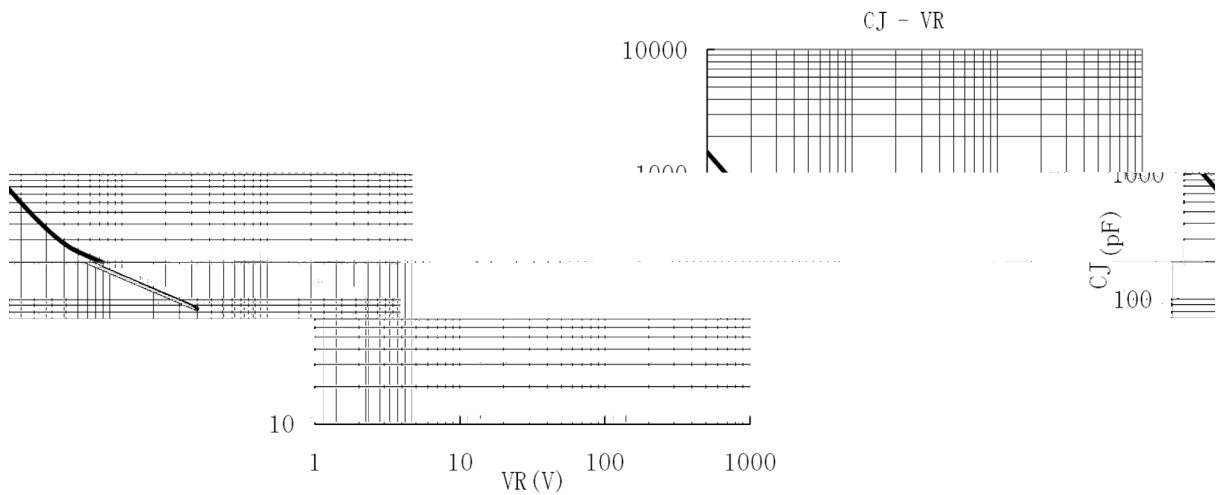
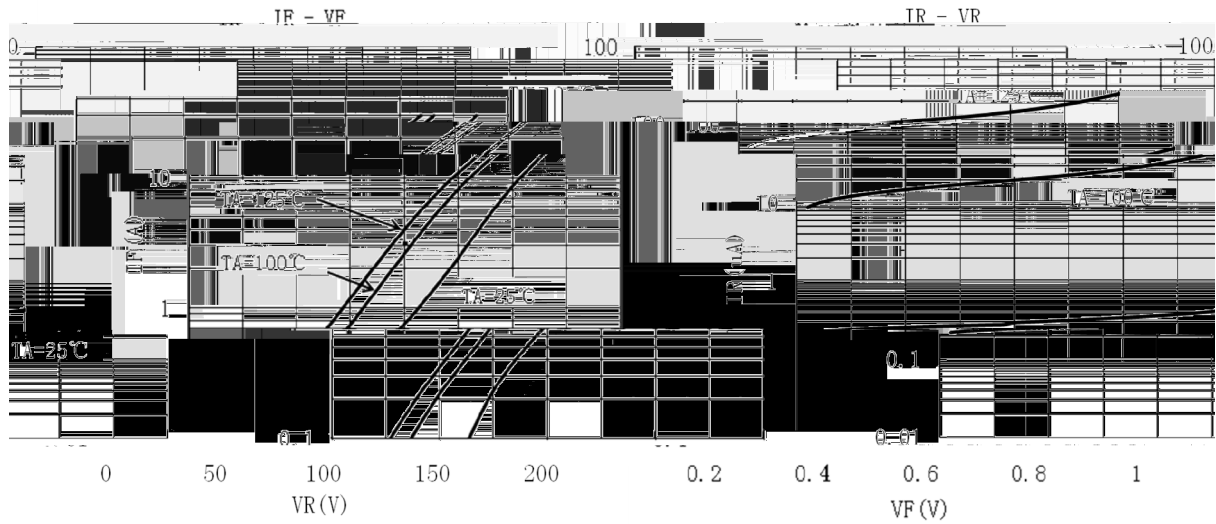
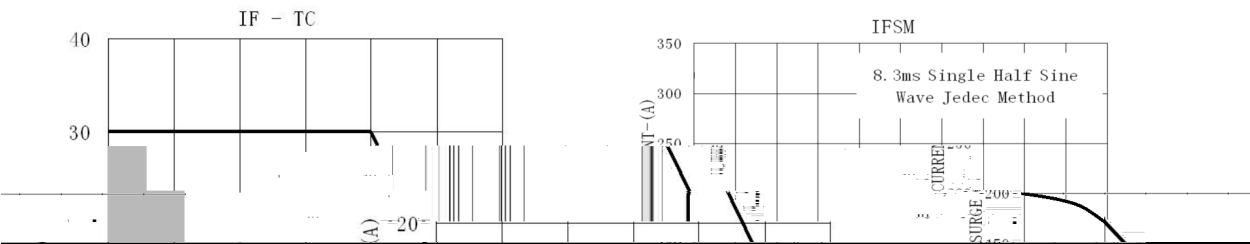
1.
effect.

/Short duration pulse test used to minimize self-heating

2.
single chip

/ Unless otherwise noted, values for the parameters of a

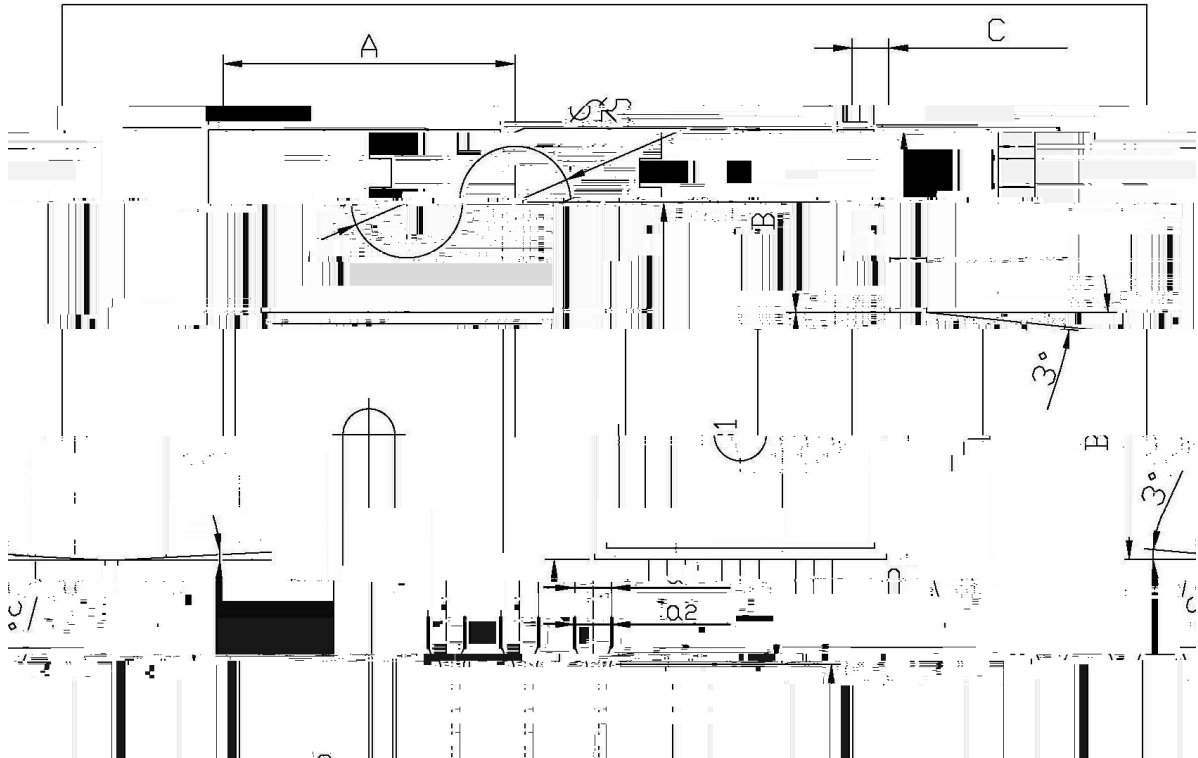
/ Electrical Characteristic Curve



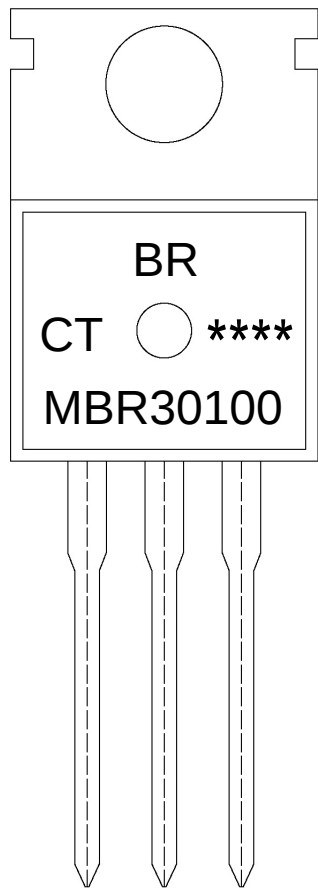
/ Package Dimensions

T0-220

单位: mm



/ Marking Instructions



BR

MBR30100

CT:

Note:

BR: Company Code

MBR30100 Product Type

CT: Internal Structure

****: Lot No. Code, code change with Lot No

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