

MBRB3045CT

Rev.A Nov.-2016

/ Descriptions

TO-263

Schottky Diode in a TO-263 Plastic Package.

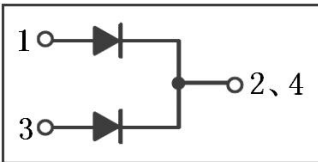
/ Features

Low power loss, high efficiency.

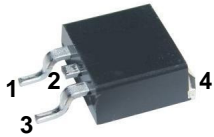
/ Applications

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

/ h_{FE} Classifications & Marking

See Marking Instructions.

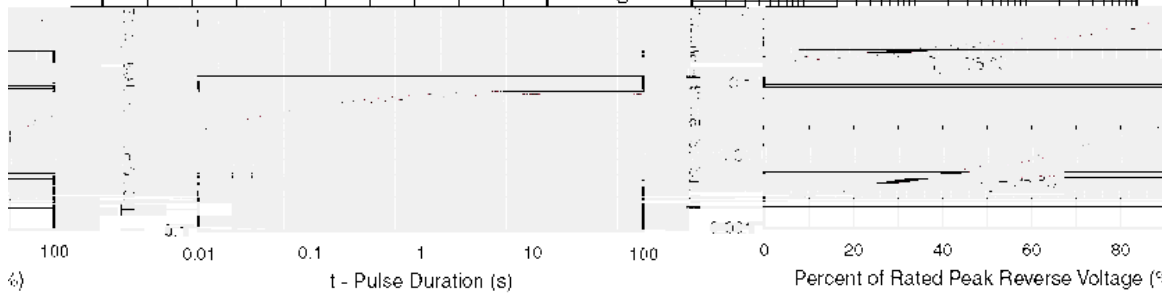
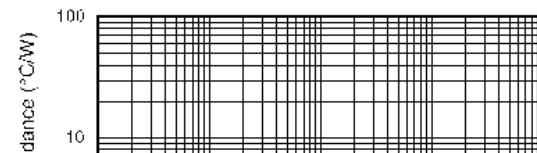
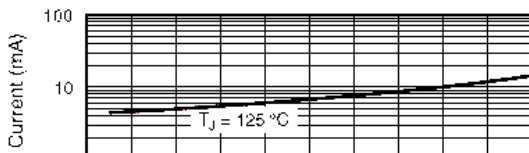
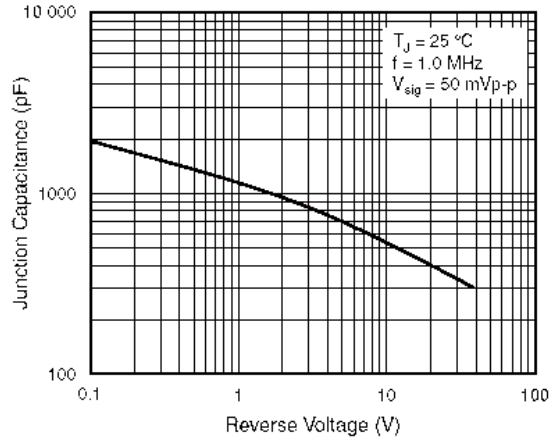
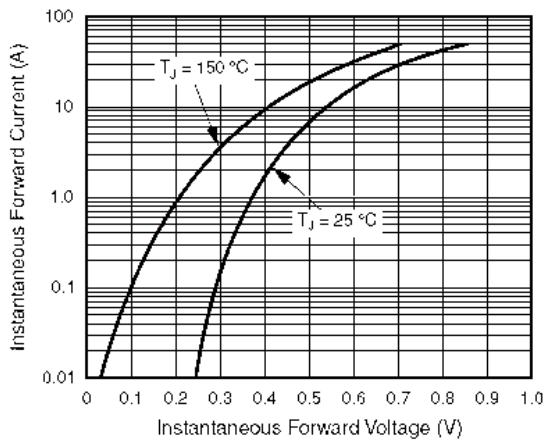
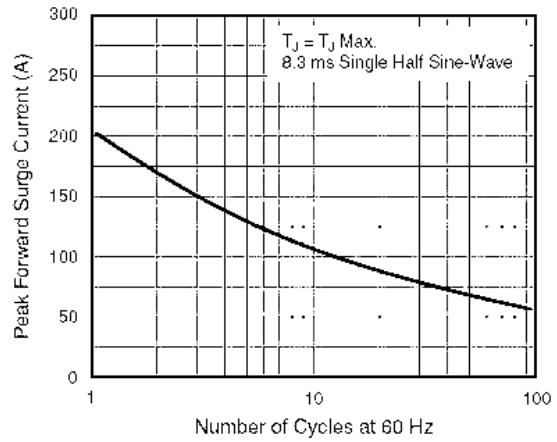
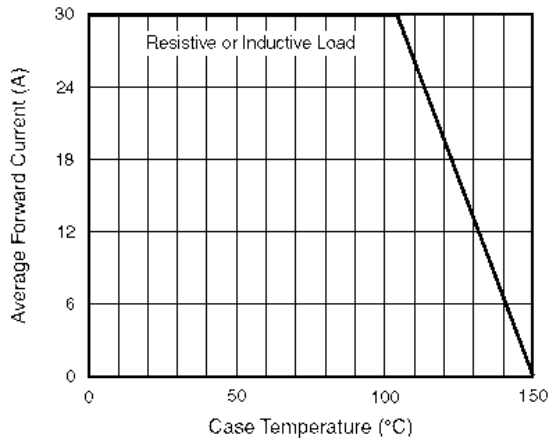
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Peak Repetitive Forward Current	$I_{F(AV)}$	15	A
	$I_{F(AV)}$ total device	30	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	200	A
Repetitive Peak Reverse Surge Current	I_{RRM}	2.0	A
Thermal Resistance Junction to Case	R_{JC}	1.5	/W
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	

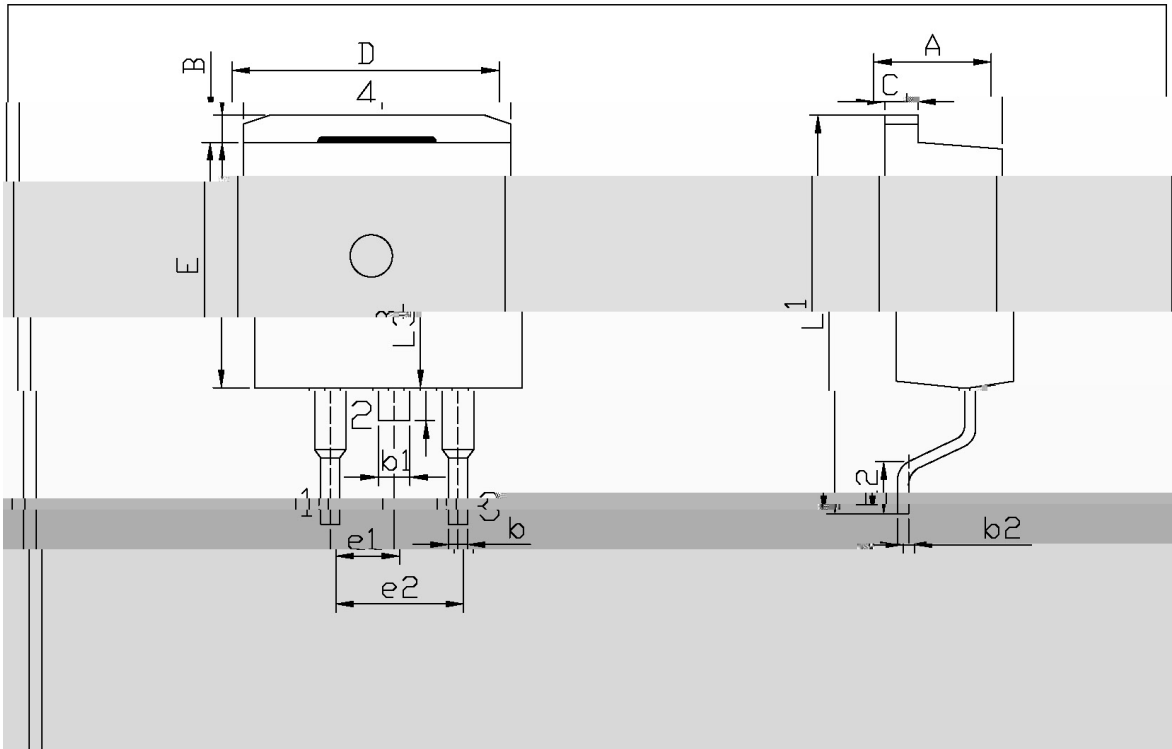
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=30A(T_c=25)$			0.76	V
		$I_F=20A(T_c=125)$			0.60	V
		$I_F=30A(T_c=125)$			0.72	V
Instantaneous Reverse Current	I_R	$T_j=25$			1.0	mA
		$T_j=125$			60	mA
Voltage Rate of Change	dv/dt				10000	V/ s

/ Electrical Characteristic Curve

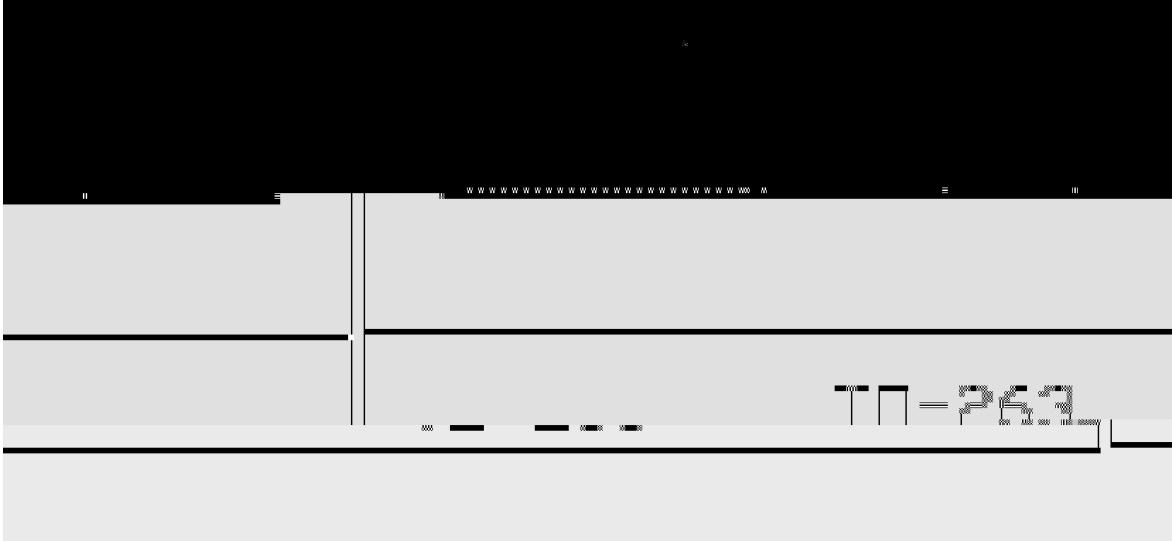


/ Package Dimensions

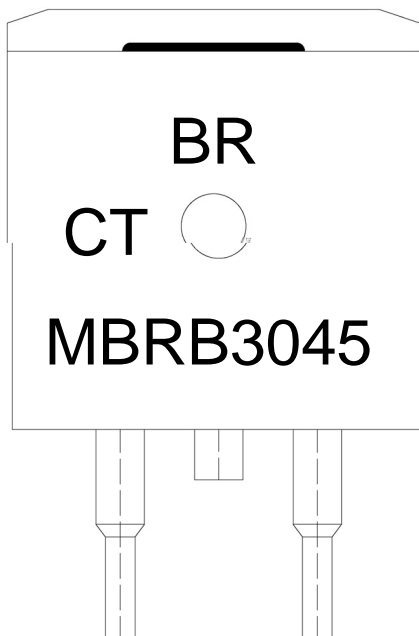


单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeter	
	Min	Max		Min	Max
A	4.30	4.70	E _L	9.00	9.40
D	1.00	1.40	b ₁	0.70	0.90
b	0.70	0.90	e ₂	4.88	5.25



/ Marking Instructions



BR

MBRB3045

CT:

Note:

BR: Company Code

MBRB3045 Product Type.

CT: Internal Structure

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

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