

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{DC}	45	V
RMS Reverse Voltage	V_{RMS}	31.5	V
Average forward rectified Current	$I_{F(AV)}$	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	200	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.2	/W
Junction and Storage Temperature Range	$T_j T_{stg}$	-55~+150	

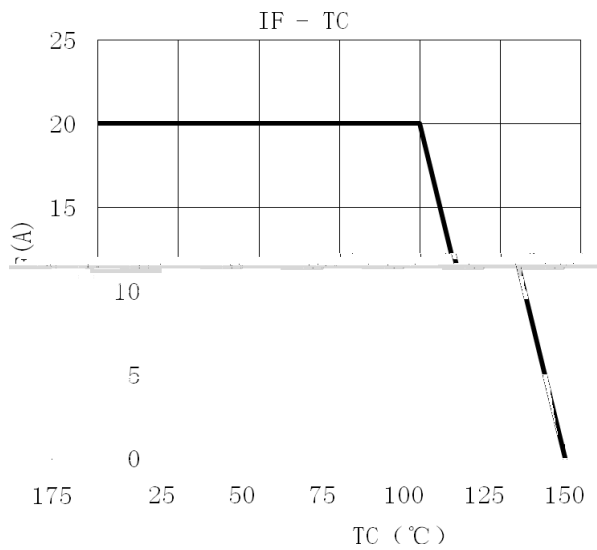
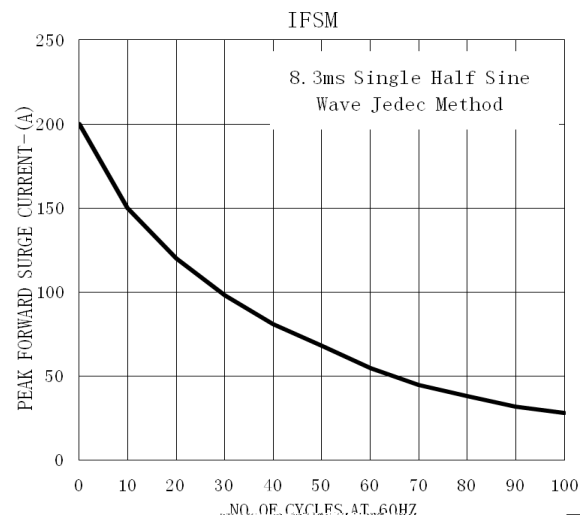
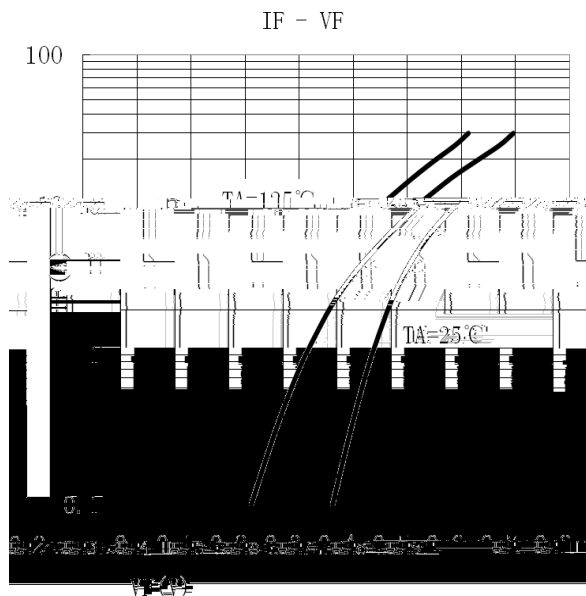
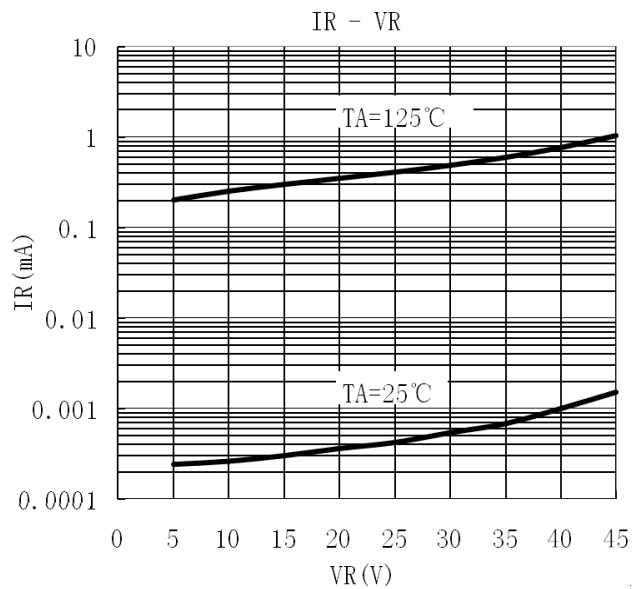
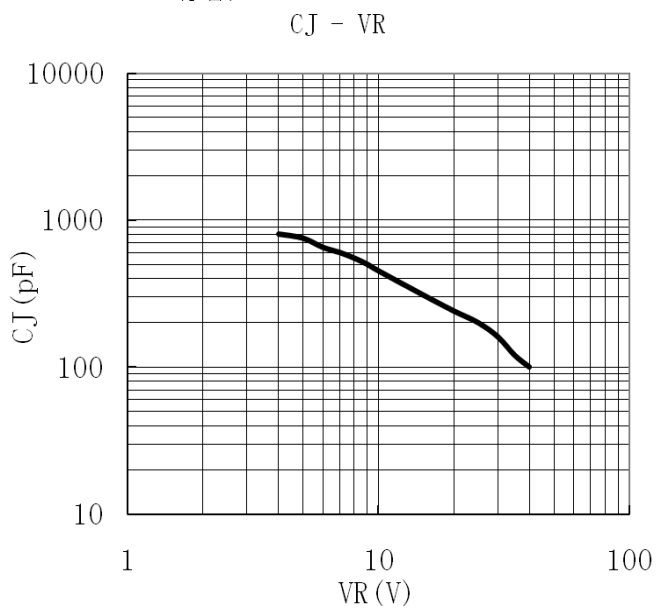
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R=1mA$ $T_a=25$	45			V
Peak Forward Voltage	V_{FM}	$I_F=5.0A$ $T_a=25$			0.60	V
		$I_F=5.0A$ $T_a=125$			0.50	V
		$I_F=10A$ $T_a=25$			0.70	V
		$I_F=10A$ $T_a=125$			0.60	V
Instantaneous Reverse Current	I_R Note 1	$V_R=45V$ $T_a=25$			100	μA
		$V_R=45V$ $T_a=125$			15	mA

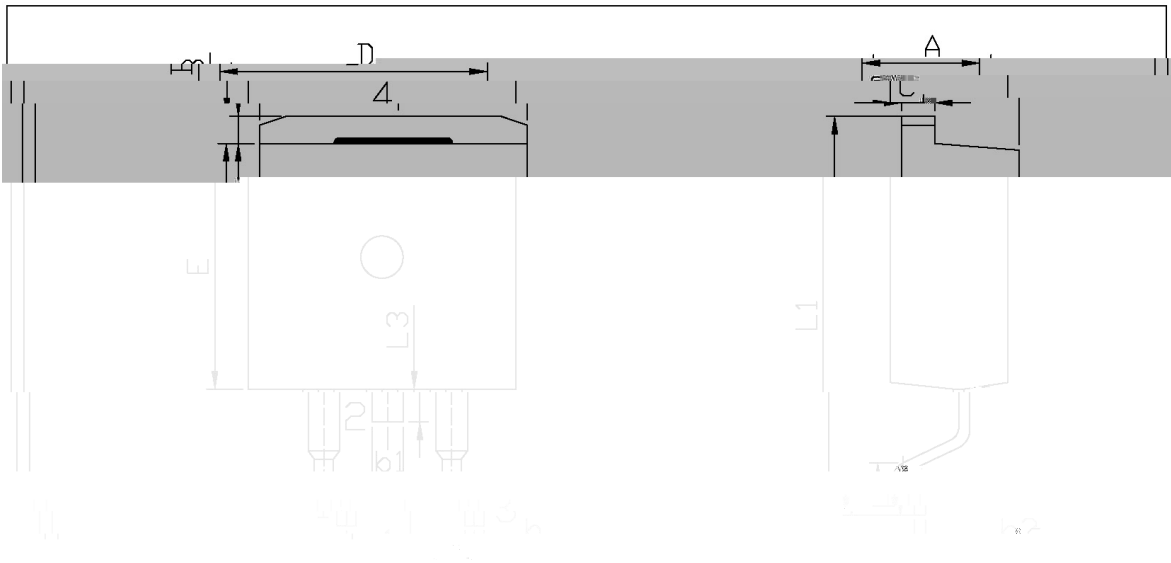
/Notes

1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip.

Electrical Characteristic Curve

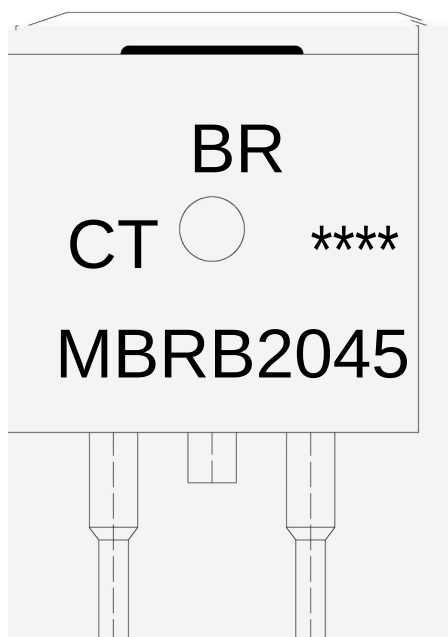


/ Package Dimensions



Max		Min		Max		Min	
9.40		A		4.70		E	
2.74		B		1.40		e	
12.88	30.26	C		0.80	0.80	L1	
5.00	16.00	b1		1.15	1.35	L2	
2.24	2.84	C		1.20	1.40	L3	
1.20	1.60	D		9.30	10.20		

/ Marking Instructions



BR

MBRB2045

CT:

Note:

BR:

Company Code

MBRB2045:

Product Type.

CT:

Internal Structure

****:

Lot No. Code, code change with Lot No.

