/ Descriptions

TO-252

TO-252 Plastic package Schottky diode .

/ Features

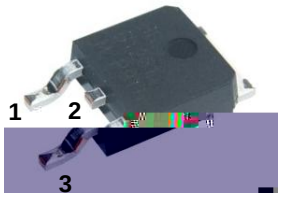
Low forward voltage drop,low power losses,High efficiency operation.

/ 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 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	/W
Junction and Storage Temperature Range	T_j T_{stg}	-55~+150	

/ Electrical Characteristics(Ta=25)

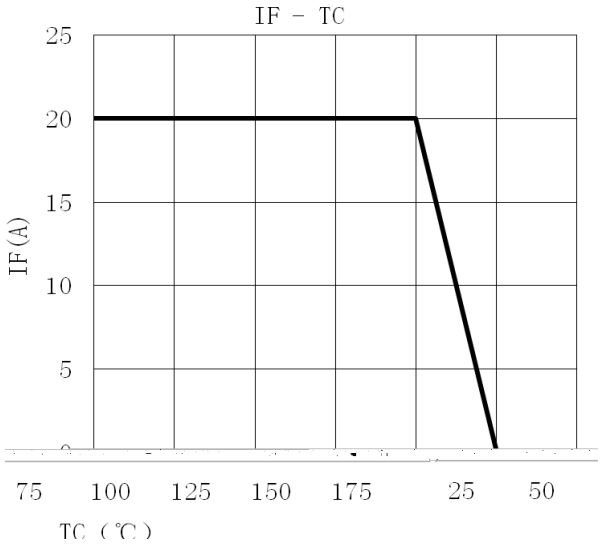
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	I_R =1mA Ta=25	45			V
Peak Forward Voltage	V_{FM}	I_F =5.0A Ta=25			0.60	V
		I_F =5.0A Ta=125			0.50	V
		I_F =10A Ta=25			0.70	V
		I_F =10A Ta=125			0.60	V
Instantaneous Reverse Current	I_R Note 1	V_R=45V Ta=25			100	uA
		V_R=45V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

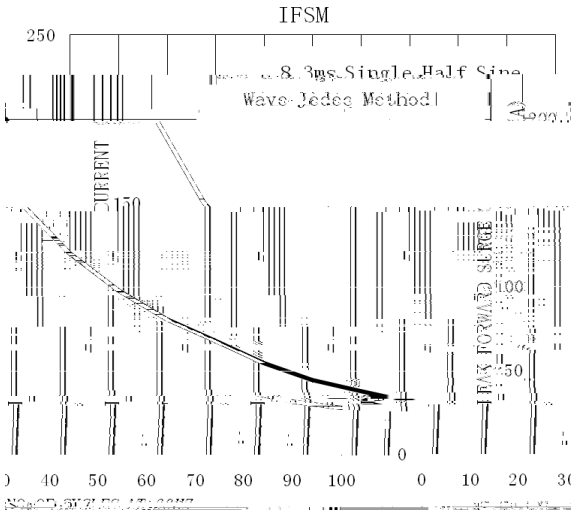
/Notes

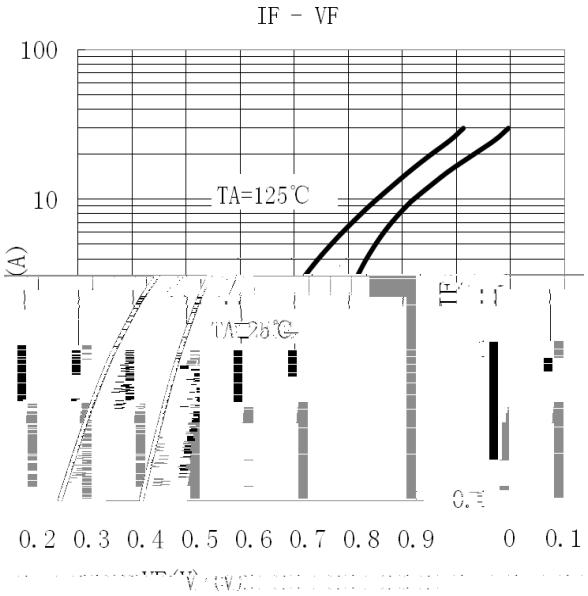
1. /Short duration pulse test used to minimize self-heating effect.

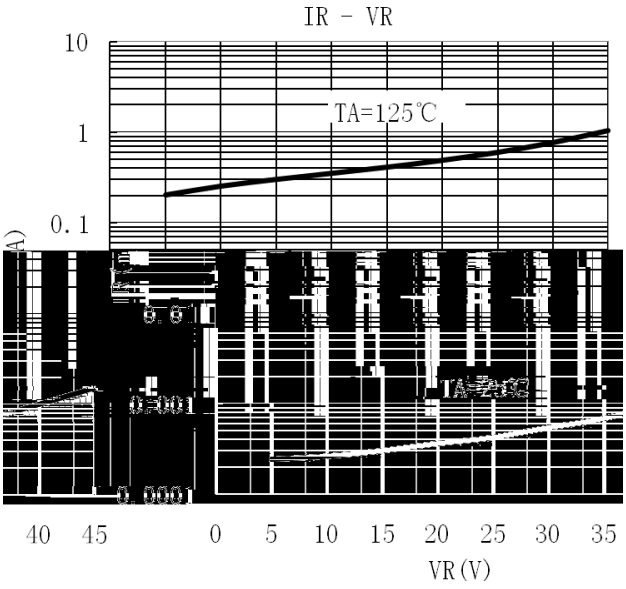
2. / Unless otherwise noted, values for the parameters of a single chip

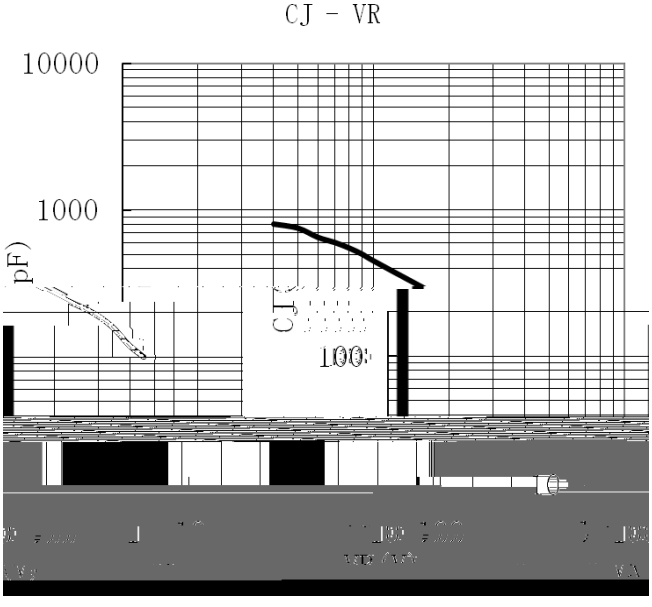
/ Electrical Characteristic Curve



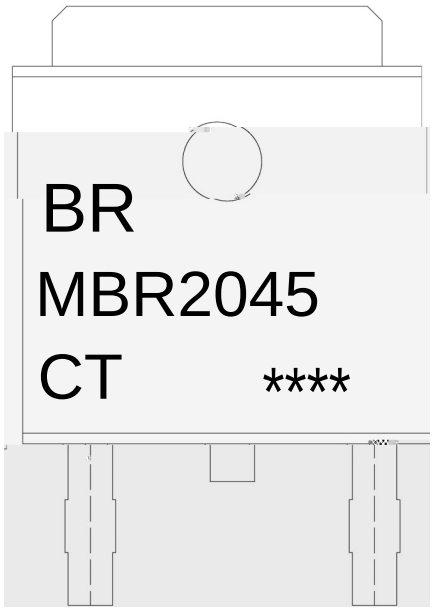








/ Marking Instructions



BR

MBR2045

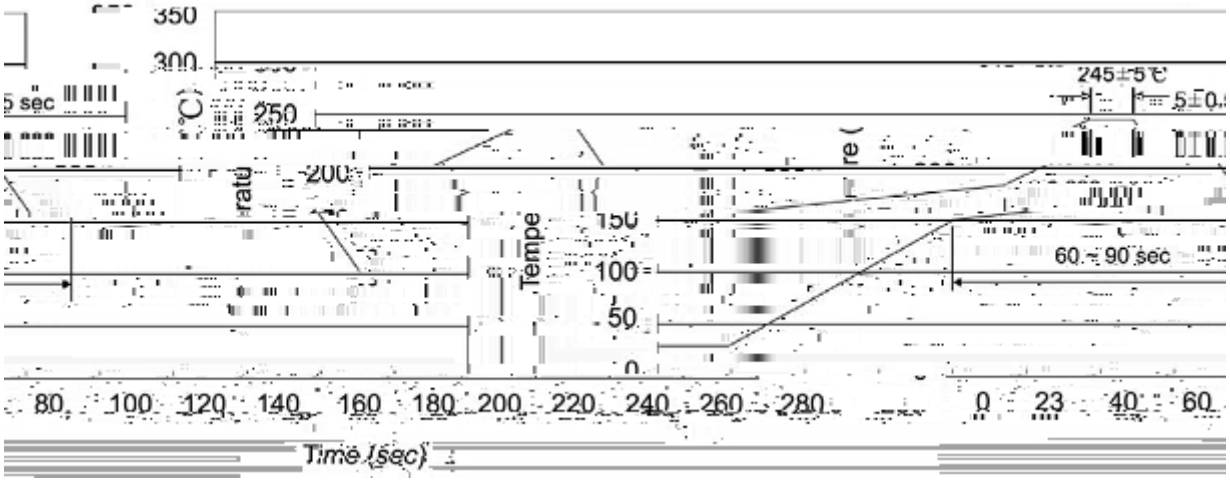
CT:

****

Note:

BR:	Company Code
MBR2045:	Product Type.
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

( ) /



Note:

1	25	150	60	90sec;	1.Preheating:25~150 , Time:60~90sec.
2	245±5			5±0.5sec;	2.Peak Temp.:245±5 , Duration:5±0.5sec.
3		2	10	/sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	5	25,000	13 ×16	360×360×50	385×257×392