5 é / Descriptions

: 5 .> / / x RK Ô Â 8 â ’ož

SchottkyDiode in a TO-252 Plastic Package.

¤ ª / Features

C ô z k | ä ä k —)í D }ož

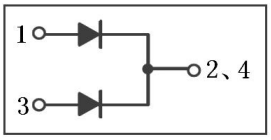
Lowpower loss, high efficiency,HF Product.

Ð ÷ / Applications

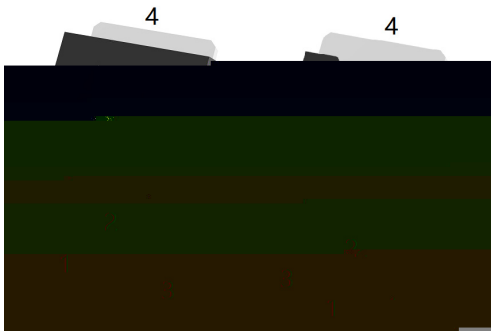
9 ä Èo• z 9o• Ý v … v 8 â ’ k Ò v 8 â ’ k ‘ 8 â ’ož

For use in low free wheeling, and polarity protection applications.

Ã W] Ô · / Equivalent Circuit



• Û - æ / Pinning



PIN1 y Anode PIN 2,4 y Cathode PIN 3 y Anode

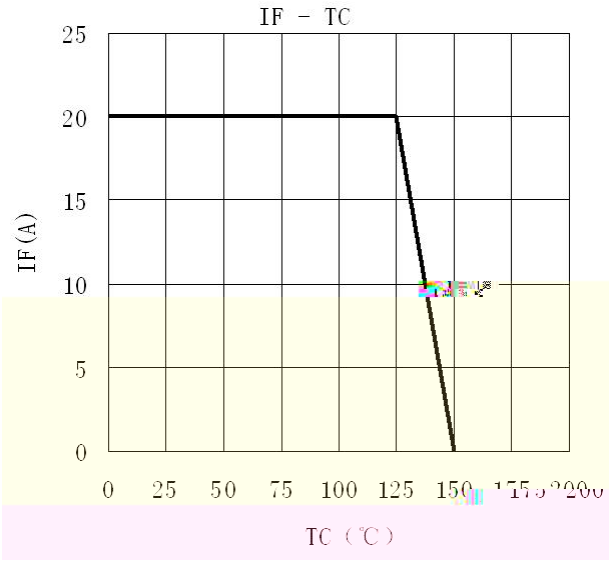
, M V / Marking

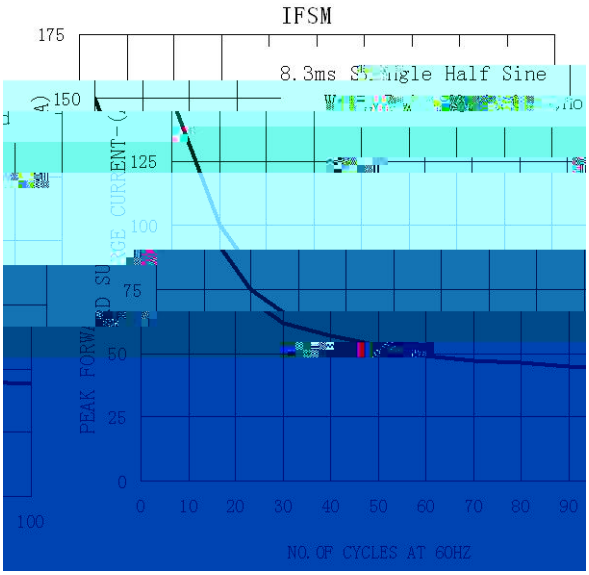
• - ~ ª ¢ož See Marking Instructions.

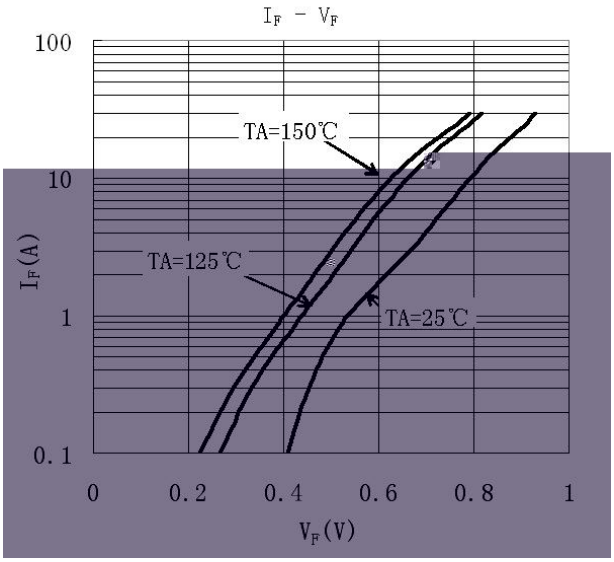
@ ƒ Parameter	… Z Symbol	ƒ › Rating	% y Unit
Peak Repetiti Working Peak Re DC Blocking Voltage	V_{RRM} V_{RWM} V_{RM}	v v 100	V
RMS Re	$_{R(RMS)}$ v	70	V
A	$I_{F(AV)\ (per\ leg)}$	10	A
	$I_{F(AV)\ Ätotal\ Å}$	20	A
Non Repetiti	$_{FSM}$	v 150	A
Thermal resistance, junction to case	$R_{\ Jc}$	6	/W
Junction Temperature Range	$T_{j\ MAX}$	175	
Storage Temperature Range	T_{stg}	-55 175	

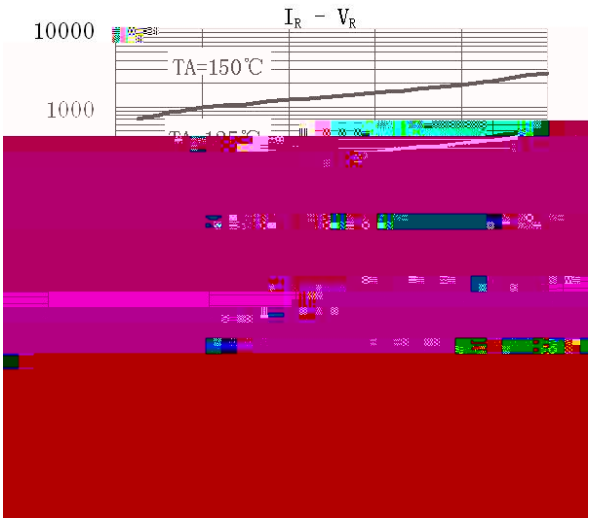
@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Re	V_{BR}	I_R=0.3mA v	100			V
Forward Voltage	V_F	I_F=10A T_J=25			0.85	V
		I_F=10A T_J=125			0.7	V
		I_F=20A T_J=25			0.95	V
		I_F=20A T_J=125			0.85	V
Instantaneous Re	I_R ÄNote 1 Å	V_R=100V T_J=25			0.15	mA
		V_R=70V T_J=125	v		1.0	mA
		V				

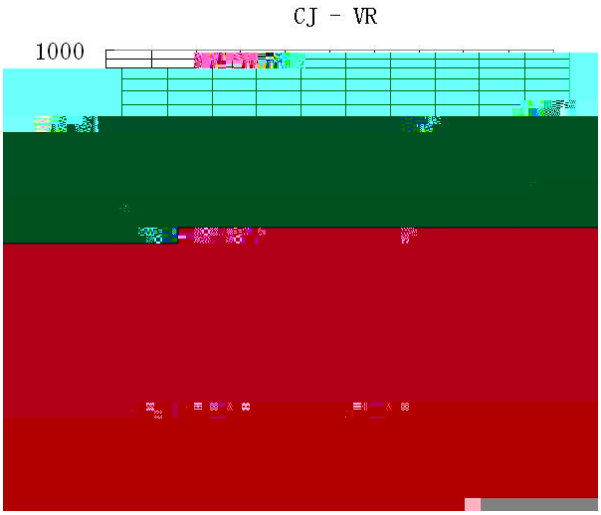
Ô ? d • Ž ¢ / Electrical Characteristic Curve



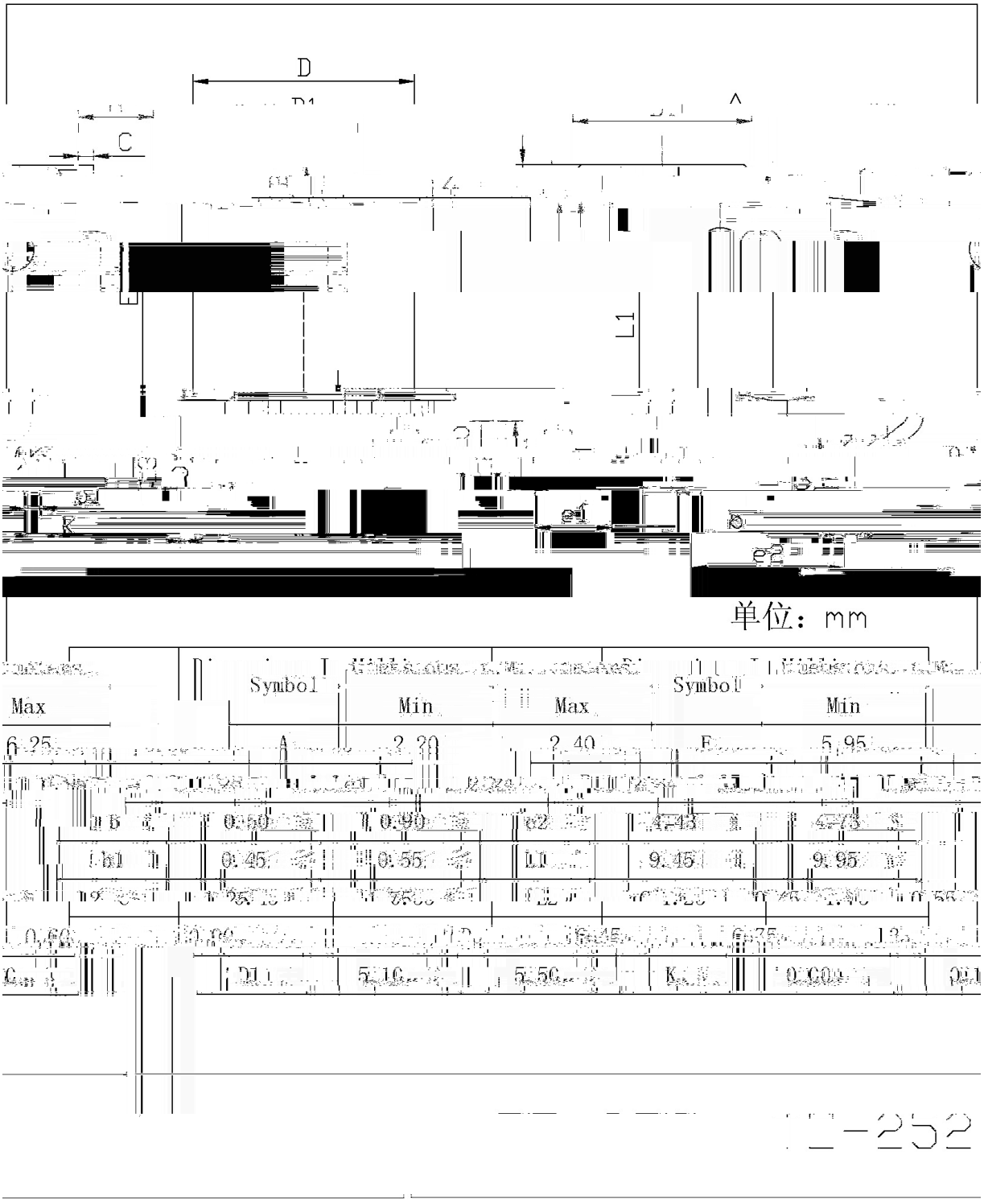




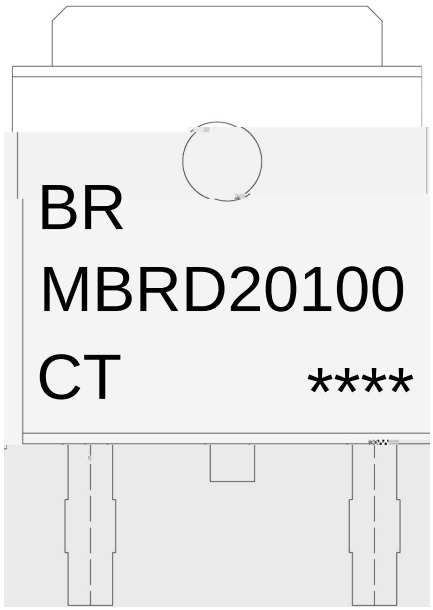




Ø ¤ =) ¢ / Package Dimensions



, M y ƒ / Marking Instructions



ª ¢ y

(8 y ¸ [W A

3 (8 * y D } º Z

) : Ä B È ã W A

y ÿ D Z W A k š ÿ D Z J

Note:

BR:	Company Code
MBRD20100 y	Product Type Code
CT:	Internal Structure Code
****:	Lot No. Code, code change with Lot No.

š WD t ... • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6

ª ¢ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r 5 - k ž • 4 Ò 5 r 0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150-180 - , Time:60-90sec.

2.Peak Temp.:245 r 5 - , Duration:5 r 0.5sec.

3. Cooling Speed: 2-10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r 5 - ž • y 10 r 1 sec. Temp.:260-5 Time:10-1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ˜ E	Units ;>û ¦H					Dimension ;>û p . (unit Æ mm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Box 1ç
TO-252 7>û ˜ E3	2,6(24(0)4RD20(5,0 @nnÐÁB„ dfÐ œ RRrFT ˜ yÀ“³ï°]Dimension						220/TT664(0)91551(30, p U$ @ pÐ l!‡Q1ò”† <`	