



WSR20020CDS

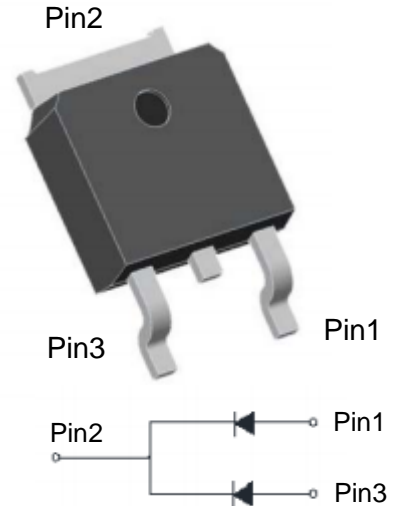
SCHOTTKY BARRIER RECTIFIER

Features

- 20A Schottky barrier diode
- Schottky barrier rectifier
- Excellent high temperature stability
- Low forward voltage
- High forward surge capability
- High current capability

Mechanical Data

- Case: TO-252 molded plastic package



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	WSR20020CDS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Rectified Output Current @60Hz -sine wave, R- load, Ta=25°C	I_o	10(per leg)	A
		20(total device)	
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Ta=25°C	I_{FSM}	150	A
Storage Temperature	T_{stg}	-55 ~+150	°C
Junction Temperature	T_j	-55 ~+150	°C

Electrical Characteristics(Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	WSR20020CDS		UNIT
			Typ	Max	
Maximum instantaneous forward voltage drop per diode	V_F	$I_F = 10.0A$ (per leg)	0.85	0.95	V
Leakage Current	I_R	$V_R = V_{RRM}$, $T_j = 25^\circ C$	/	0.1	mA
		$V_R = V_{RRM}$, $T_j = 125^\circ C$	10	/	

Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	WSR20020CDS	UNIT
Thermal Resistance	Between Junction to Case	$R_{\theta J-C}$	5.0	°C/W
	Between Junction to Ambient	$R_{\theta J-A}$	100	

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

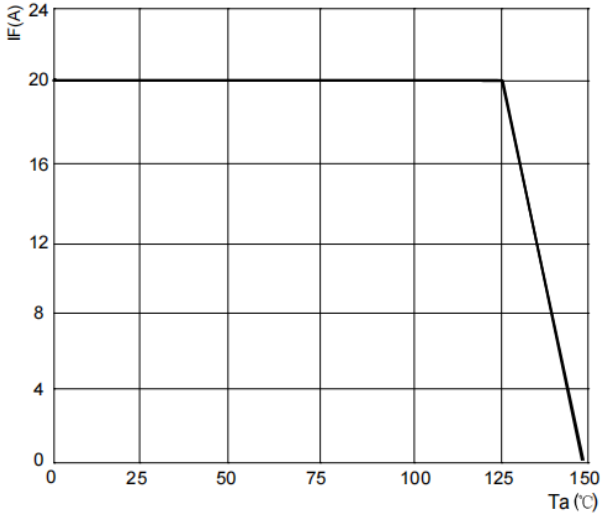


FIG.2: TYPICAL FORWARD CHARACTERISTICS

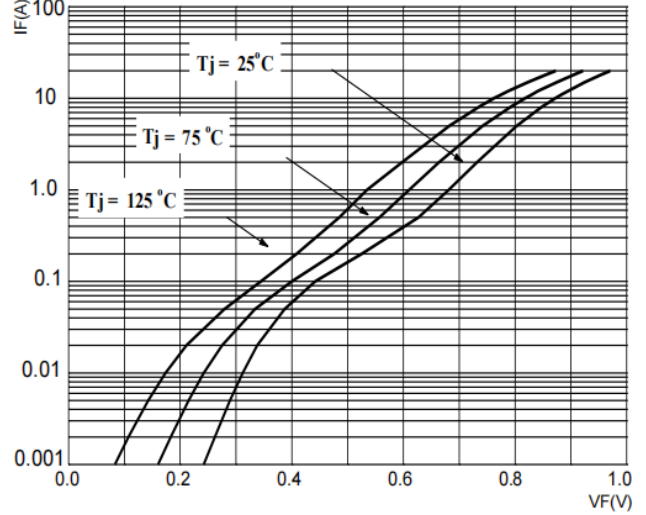
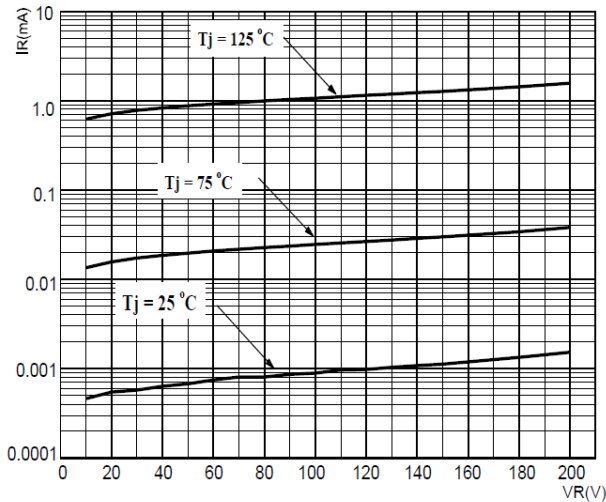
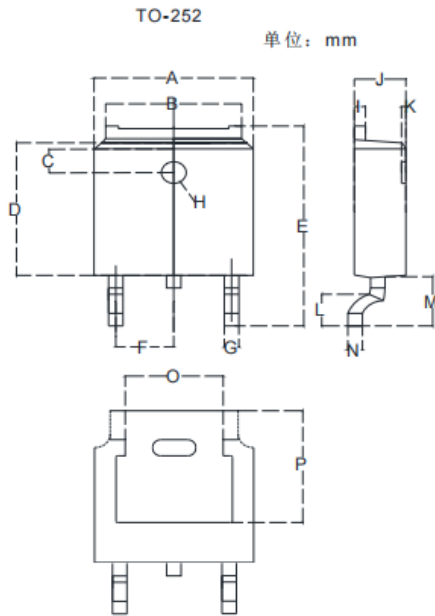


FIG.3: TYPICAL REVERSE CHARACTERISTICS



Outline Dimensions



TO-252		
Dim	Min	Max
A	6.5	6.7
B	5.23	5.46
C	1.8REF	
D	6.0	6.2
E	10	10.4
F	2.286BSC	
G	0.72	0.85
H	1.2REF	
I	0.47	0.58
J	2.2	2.4
K	0	0.3
L	1.5REF	
M	2.9REF	
N	0.51BSC	
O	5.23	5.46
P	5.3REF	

Marking Code

Part Number	WSR20020CDS
Marking Code	MBR20200CDS

Package Information

Quantity: 2500pcs/reel

Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207

Tel: 021-68969993 Fax: 86-21-50757680 Email: market@way-on.com

WAYON website: <http://www.way-on.com>

For additional information, please contact your local Sales Representative.

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*Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.*