



WSR10010CDS

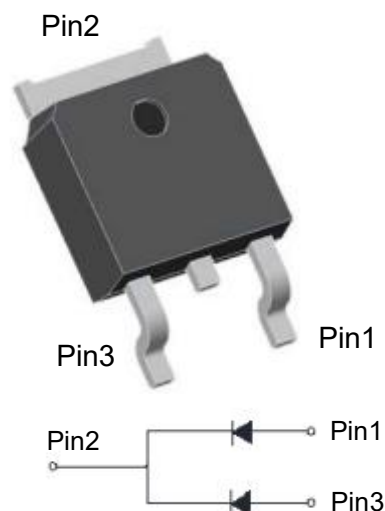
SCHOTTKY BARRIER RECTIFIER

Features

- 10A 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℃ Unless otherwise specified)

PARAMETER	SYMBOL	WSR10010CDS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Average Rectified Output Current @60Hz -sine wave, R- load, Ta=25℃	I_o	5(per leg)	A
		10(total device)	
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Ta=25℃	I_{FSM}	100	A
Storage Temperature	T_{stg}	-55 ~+150	℃
Junction Temperature	T_j	-55 ~+150	℃

Electrical Characteristics(Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	WSR10010CDS		UNIT
			Typ	Max	
Maximum instantaneous forward voltage drop per diode	V_F	$I_F=5.0A$ (per leg)	0.8	0.85	V
Leakage Current	I_R	$V_R=V_{RRM}$, $T_j=25^{\circ}C$	0.1	0.5	mA
		$V_R=V_{RRM}$, $T_j=125^{\circ}C$	6	/	

Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	WSR10010CDS	UNIT
Thermal Resistance	Between Junction to Case	$R_{\theta J-C}$	5.0	$^{\circ}\text{C}/\text{W}$

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

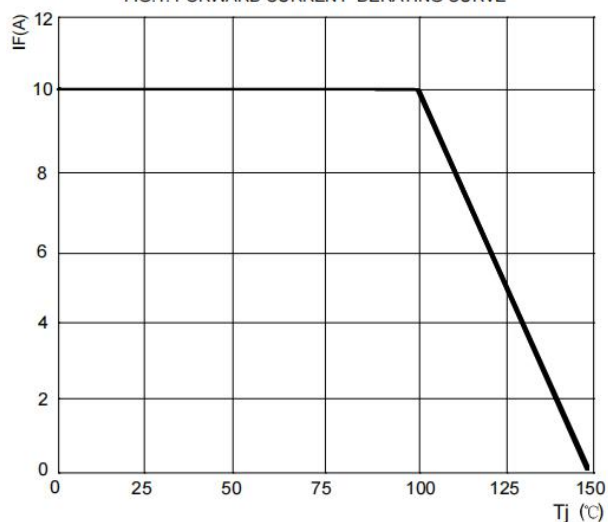


FIG.2: TYPICAL FORWARD CHARACTERISTICS

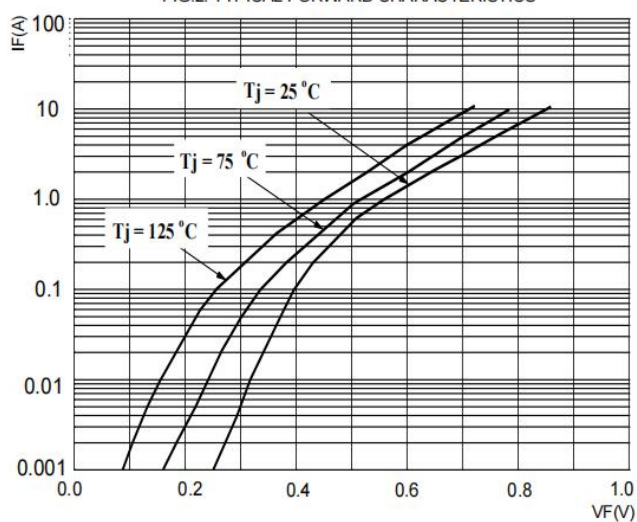


FIG.3: TOTAL CAPACITANCE DERATING CURVE

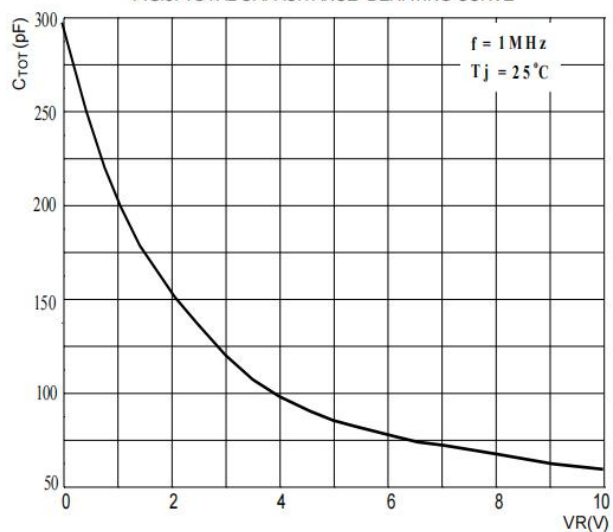
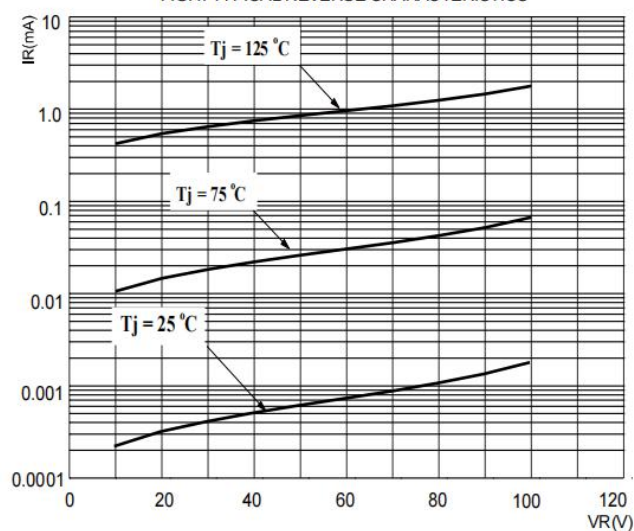
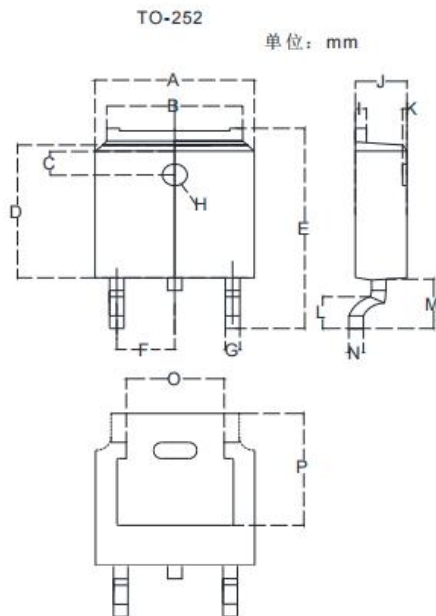


FIG.4: TYPICAL REVERSE CHARACTERISTICS



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	WSR10010CDS
Marking Code	MBR10100CDS

Package Information

Quantity : 2500pcs/reel

Contact Information

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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.*