

Dual High-Voltage Schottky Rectifiers

REV:1.01

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| Product Character | <ul style="list-style-type: none"> ◆ Half Bridge Rectified、Common Cathode Structure. ◆ Multilayer Metal -Silicon Potential Structure. ◆ Low Power Waste, High Efficiency. ◆ Beautiful High Temperature Character. ◆ Have Over Voltage protect loop, high reliability. ◆ RoHs Product. |
|--------------------------|---|

Typical Reference Data

VRRM= 80V
IF(AV)= 20A

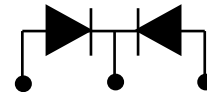
VRRM= 90V
IF(AV)= 20A

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| Primary Use | <ul style="list-style-type: none"> ● Low Voltage High Frequency Switching Power Supply. ● Low Voltage High Frequency Invers Circuit. ● Low Voltage Continued Circuit and Protection Circuit. |
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VRRM= 100V
IF(AV)= 20A

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| Summarize | <p>■ MBR2080、MBR2090、MBR20100 Schottky diode, in the manufacture uses the main process technology includes: Silicon epitaxial substrate, P+ loop technology, The potential metal and the silicon alloy technology, the device uses the two chip, the common cathode, the plastic package structure.</p> |
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Polarity



Absolute Maximum Ratings

| Item | Symbol | MBR2080 | MBR2090 | MBR20100 | Unit |
|--|--------|-----------|---------|----------|------|
| Maximal Inverted Repetitive Peak Voltage | VRRM | 80 | 90 | 100 | V |
| Maximal DC Interdiction Voltage | VDC | 80 | 90 | 100 | V |
| Average Rectified Forward Current TC=150°C Whole Device | IFAV | 20 | | | A |
| Unilateral | | | | | |
| Forward Peak Surge Current (Rated Load 8.3 Half Mssine Wave-According to JEDEC Method) | IFSM | 150 | | | A |
| Operating Junction Temperature | TJ | -40- +175 | | | °C |
| Storage Temperature | TSTG | -40- +175 | | | °C |

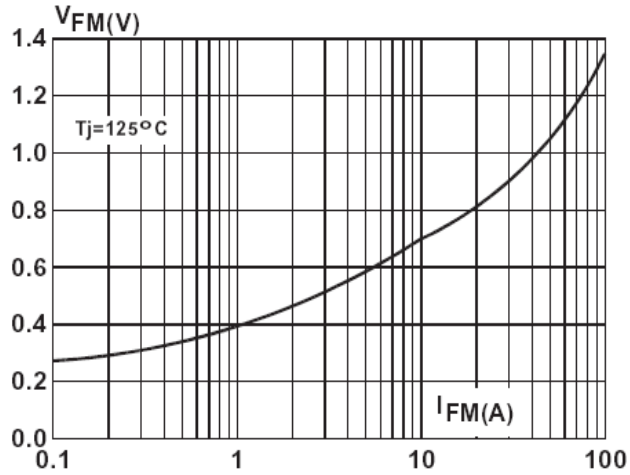
Electricity Character

| Item | Test Condition | Minimum | Representative | MBR2080 | MBR2090 | MBR20100 | Unit |
|------|----------------|---------|----------------|---------|---------|----------|------|
| IR | TJ =25°C | VR=VRRM | | 100 | | | uA |
| | TJ =125°C | | | 1 | | | mA |
| VF | TJ =25°C | IF=10A | | 0.82 | 0.84 | 0.85 | V |

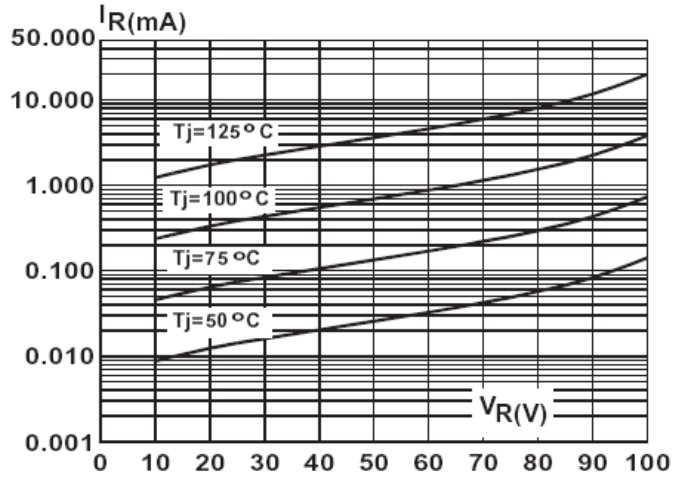
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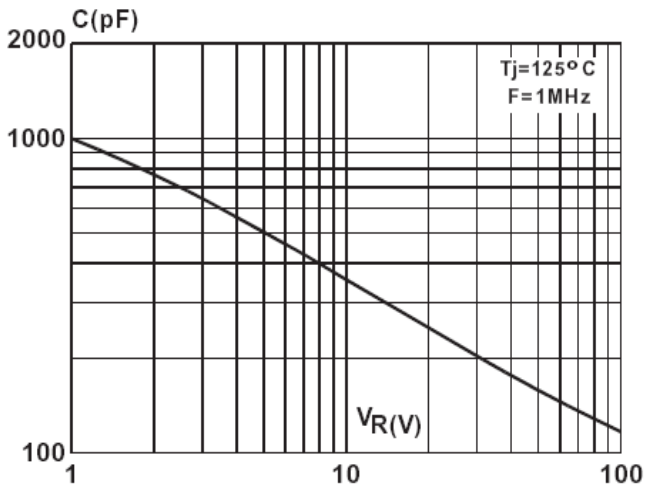
The forward voltage and forward current curve



The reverse leak current and the reverse voltage (single-device) curve



The crunode capacitance curve



ITO-220AB

