

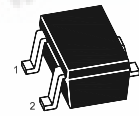
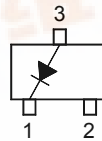
# MMBD142W

[查询"MMBD142W"供应商](#)

## Silicon Epitaxial Planar Switching Diode

### Applications

- for switching circuits



SOT-323 Plastic Package  
Marking Code: **D3**

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

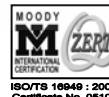
| Parameter                                                      | Symbol    | Value         | Unit             |
|----------------------------------------------------------------|-----------|---------------|------------------|
| Peak Reverse Voltage                                           | $V_{RM}$  | 80            | V                |
| Reverse Voltage                                                | $V_R$     | 80            | V                |
| Forward Current                                                | $I_F$     | 100           | mA               |
| Peak Forward Current                                           | $I_{FM}$  | 225           | mA               |
| Non-repetitive Peak Forward Surge Current ( $t = 1\text{ s}$ ) | $I_{FSM}$ | 500           | mA               |
| Power Dissipation                                              | $P_{tot}$ | 200           | mW               |
| Junction Temperature                                           | $T_j$     | 150           | $^\circ\text{C}$ |
| Storage Temperature Range                                      | $T_{stg}$ | - 55 to + 150 | $^\circ\text{C}$ |

### Characteristics at $T_a = 25^\circ\text{C}$

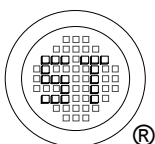
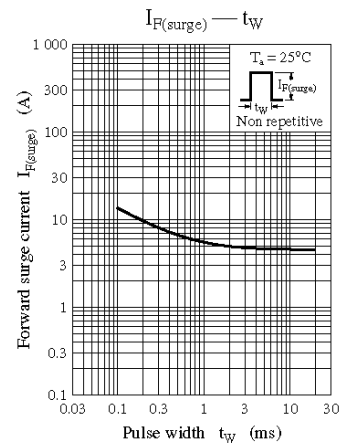
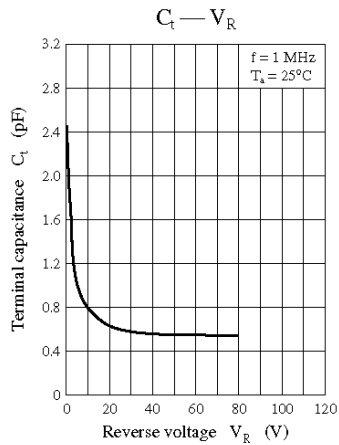
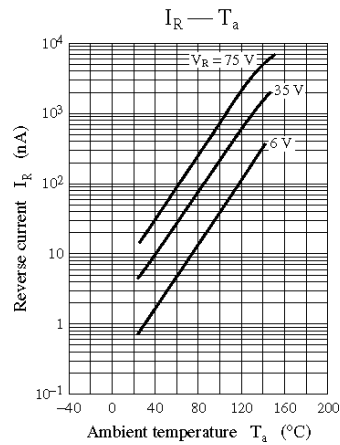
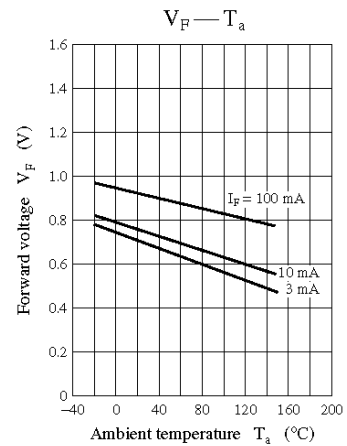
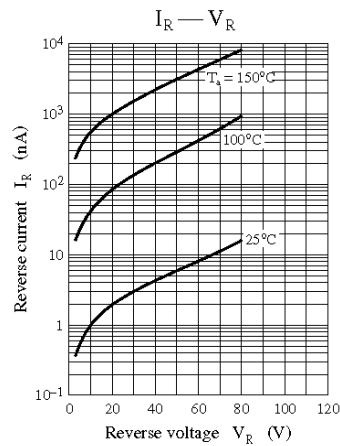
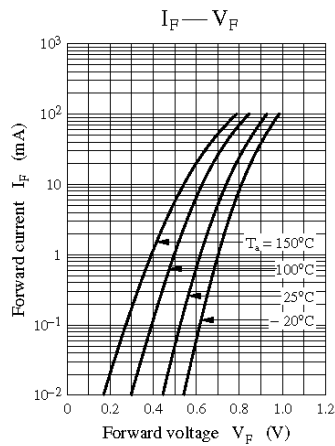
| Parameter                                                                                                                    | Symbol   | Min. | Max. | Unit          |
|------------------------------------------------------------------------------------------------------------------------------|----------|------|------|---------------|
| Forward Voltage<br>at $I_F = 100\text{ mA}$                                                                                  | $V_F$    | -    | 1.2  | V             |
| Reverse Current<br>at $V_R = 75\text{ V}$                                                                                    | $I_R$    | -    | 0.1  | $\mu\text{A}$ |
| Reverse Voltage<br>at $I_R = 100\text{ }\mu\text{A}$                                                                         | $V_R$    | 80   | -    | V             |
| Terminal Capacitance<br>at $V_R = 0$ , $f = 1\text{ MHz}$                                                                    | $C_t$    | -    | 15   | pF            |
| Reverse Recovery Time<br>at $I_F = 10\text{ mA}$ , $V_R = 6\text{ V}$ , $I_{rr} = 0.1 \cdot I_R$ , $R_L = 100\text{ }\Omega$ | $t_{rr}$ | -    | 10   | ns            |

## SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 15/06/2009



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