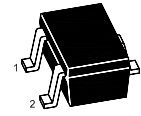
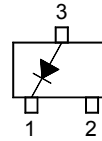


# MMBD142W

## Silicon Epitaxial Planar Switching Diode

### Applications

- for switching circuits



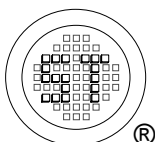
SOT-323 Plastic Package  
Marking Code: **D3**

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

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 $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	-	1.2	V
Reverse Current at $V_R = 75\text{ V}$	$I_R$	-	0.1	$\mu\text{A}$
Reverse Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_R$	80	-	V
Terminal Capacitance at $V_R = 0, f = 1\text{ MHz}$	$C_t$	-	15	pF
Reverse Recovery Time 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

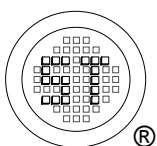
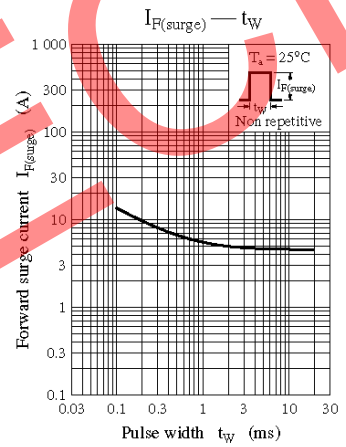
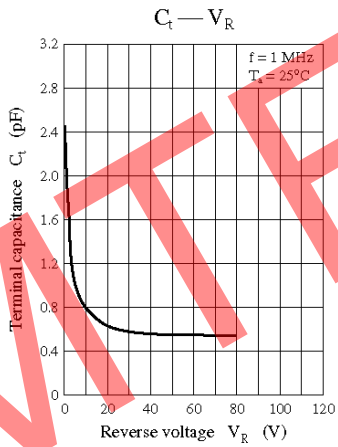
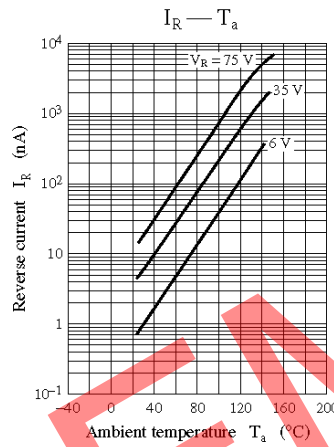
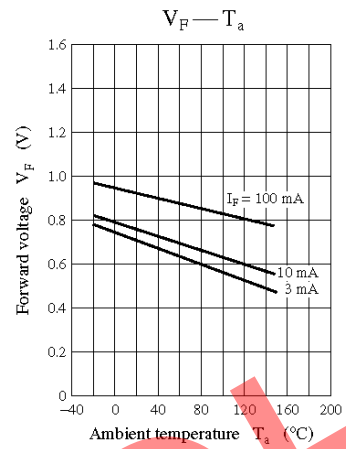
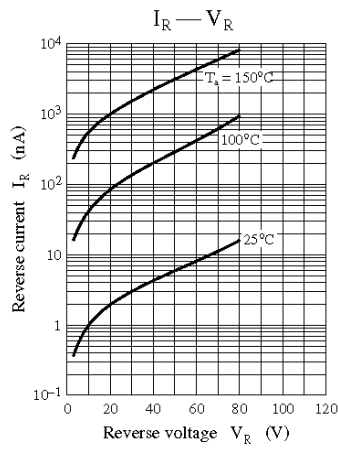
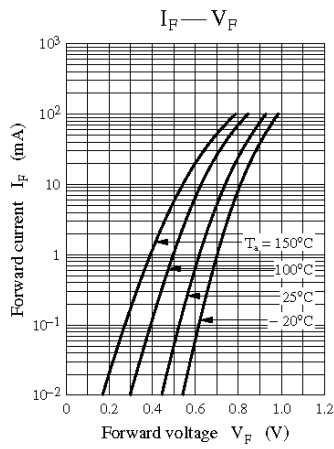


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