

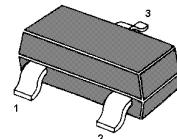
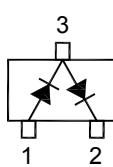
MMBD350SE

Silicon Epitaxial Planar Switching Diode

High Voltage Switching Diode

Features

- Fast switching speed
- High Conductance
- High Reverse Breakdown Voltage Rating



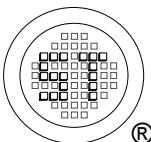
Marking Code: "PY"
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	350	V
Working Peak Reverse Voltage	V_{RWM}	300	V
DC Blocking Voltage	V_R	300	V
Continuous Forward Current	I_F	225	mA
Peak Repetitive Forward Current	I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current at $t = 1 \text{ s}$ at $t = 1 \mu\text{s}$	I_{FSM}	1 4	A
Power Dissipation	P_d	350	mW
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	°C

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	350	-	V
Forward Voltage at $I_F = 20 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V_F	- - -	0.87 1 1.25	V
Reverse Current at $V_R = 240 \text{ V}$ at $V_R = 240 \text{ V}, T_j = 150^\circ\text{C}$	I_R	- -	100 100	nA μA
Total Capacitance at $V_R = 0, f = 1 \text{ MHz}$	C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30 \text{ mA}, I_{rr} = 0.1 I_R, R_L = 100 \Omega$	t_{rr}	-	50	ns

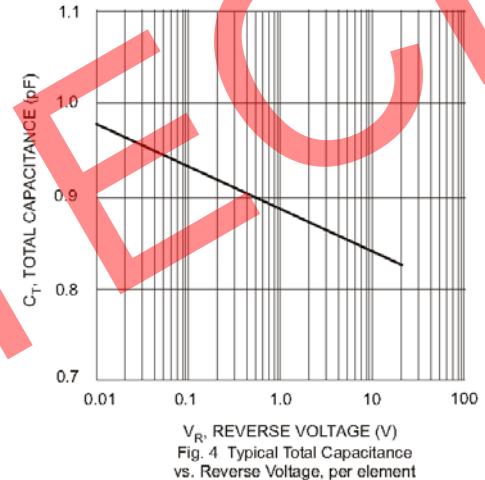
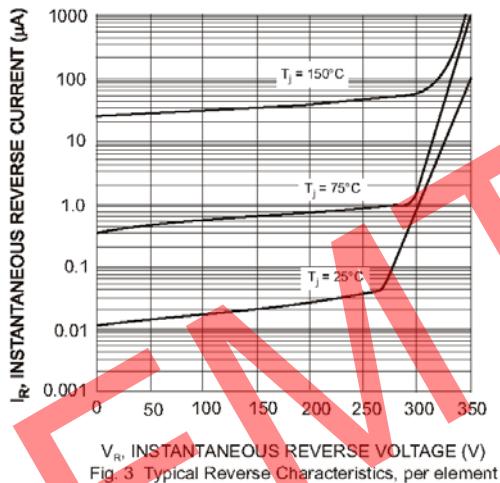
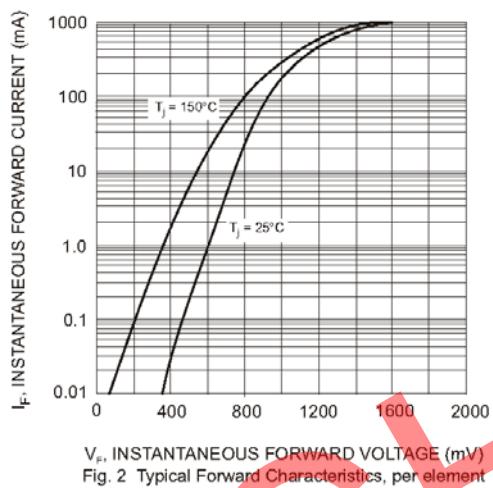
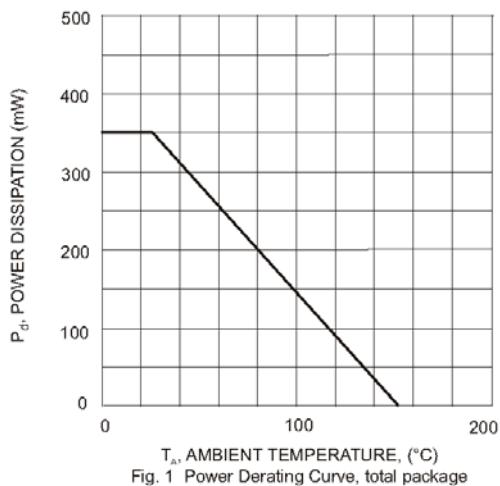


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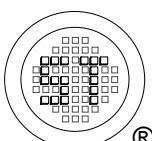


Dated: 05/07/2012 Rev: 01

MMBD350SE



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