

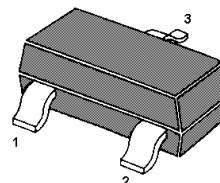
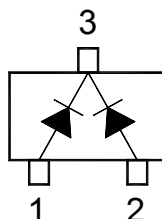
MMBD202CC

SWITCHING DIODE

Application

Ultra high speed switching

SOT-23



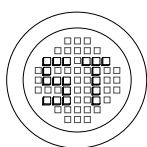
Marking Code: **FB**
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	80	V
Mean Rectifying Current	I_O	100	mA
Peak Forward Current	I_{FM}	300	mA
Surge Current at $t = 1\text{ }\mu\text{s}$	I_{surge}	4	A
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	-55 to +150	$^{\circ}\text{C}$

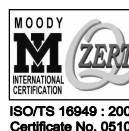
Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 100\text{mA}$	V_F	-	-	1.2	V
Reverse Current at $V_R = 70\text{V}$	I_R	-	-	0.1	μA
Capacitance between terminals at $V_R = 6\text{V}$, $f = 1\text{MHz}$	C_T	-	-	3.5	pF
Reverse Recovery Time at $V_R = 6\text{V}$, $I_F = 5\text{mA}$	t_{rr}	-	-	4	ns



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Dated : 19/10/2005

●Electrical characteristic curves (Ta=25°C)

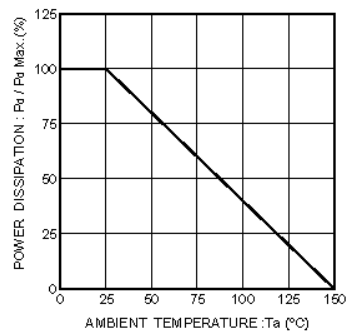


Fig.1 Power attenuation curve

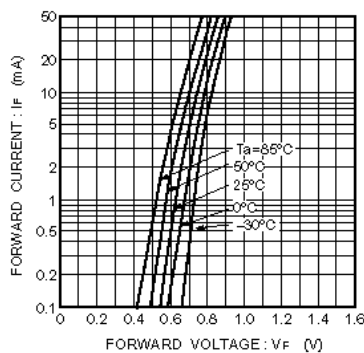


Fig.4 Forward characteristics (N Type)

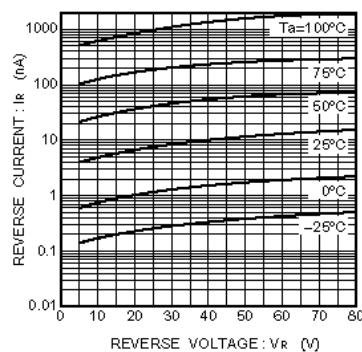


Fig.5 Reverse characteristics (N Type)

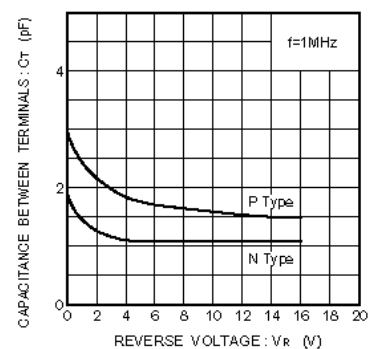


Fig.6 Capacitance between terminals characteristics

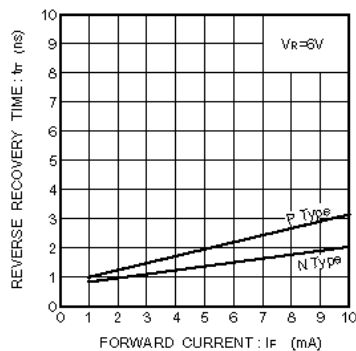


Fig.7 Reverse recovery time

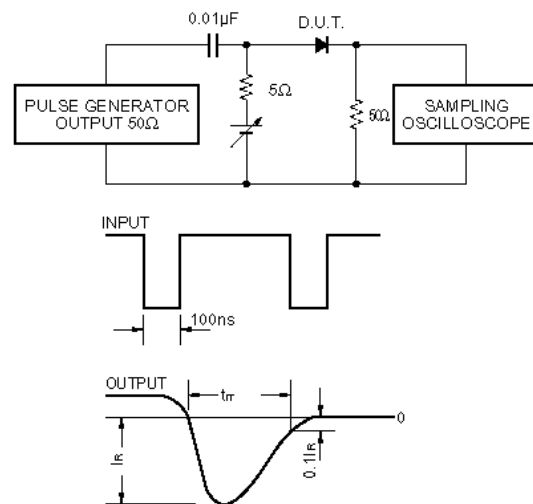
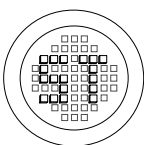


Fig.8 Reverse recovery time (t_r) measurement circuit



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ISO/TS 16949:2002
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Certificate No. 7116



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Certificate No. 0506098

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