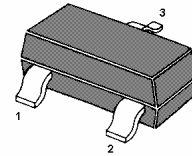
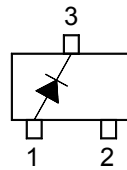


MMBD4448

SURFACE MOUNT SWITCHING DIODE

Features

- Fast switching speed
- High Conductance



Applications

- For general purpose switching

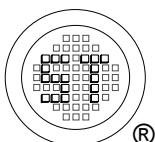
Marking Code: **XN**
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Output Current	I_O	250	mA
Forward Continuous Current	I_{FM}	500	mA
Non-repetitive Peak Forward Surge Current at $t = 1\ \mu\text{s}$ at $t = 1\ \text{s}$	I_{FSM}	4	A
		2	
Power Dissipation	P_d	350	mW
Junction and Storage Temperature Range	T_j, T_s	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 5\ \text{mA}$ at $I_F = 10\ \text{mA}$ at $I_F = 100\ \text{mA}$ at $I_F = 150\ \text{mA}$	V_F	0.62	0.72	V
		-	0.855	
		-	1	
		-	1.25	
Reverse Current at $V_R = 20\ \text{V}$ at $V_R = 75\ \text{V}$ at $V_R = 25\ \text{V}, T_j = 150^\circ\text{C}$ at $V_R = 75\ \text{V}, T_j = 150^\circ\text{C}$	I_R	-	25	nA
		-	2.5	μA
		-	30	μA
		-	50	μA
Junction Capacitance at $V_R = 0\ \text{V}, f = 1\ \text{MHz}$	C_j	-	4	pF
Reverse Recovery Time at $I_F = I_R = 10\ \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\ \Omega$	t_{rr}	-	4	ns



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company
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ISO/TS 16949:2002
Certificate No. 05103



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Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 09/03/2007

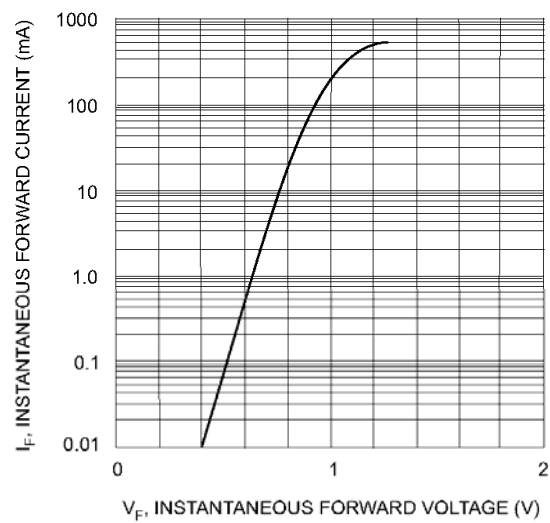


Fig. 1 Forward Characteristics

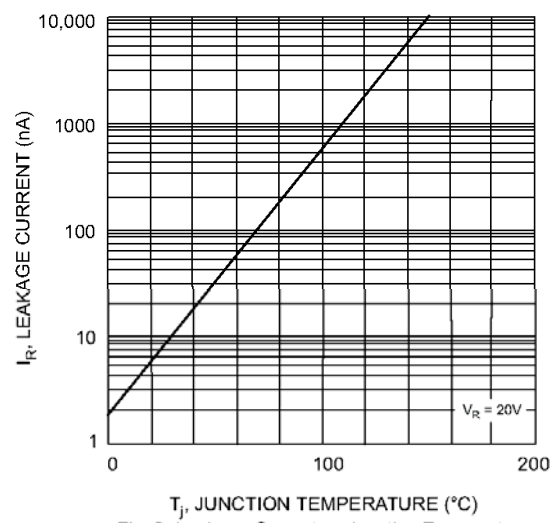
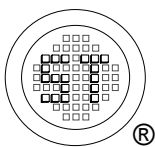


Fig. 2 Leakage Current vs Junction Temperature



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