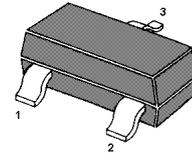
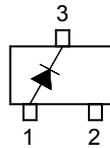


MMBD4448

SURFACE MOUNT SWITCHING DIODE

Features

- Fast switching speed
- High Conductance



Applications

- For general purpose switching

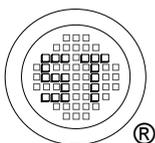
Marking Code: **5D**
SOT-23 Plastic Package

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

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	I_{FSM}	4	A
at $t = 1\text{ }\mu\text{s}$		2	
at $t = 1\text{ s}$			
Power Dissipation	P_d	350	mW
Junction and Storage Temperature Range	T_j, T_s	- 65 to + 150	$^\circ\text{C}$

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

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



SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 10/10/2008

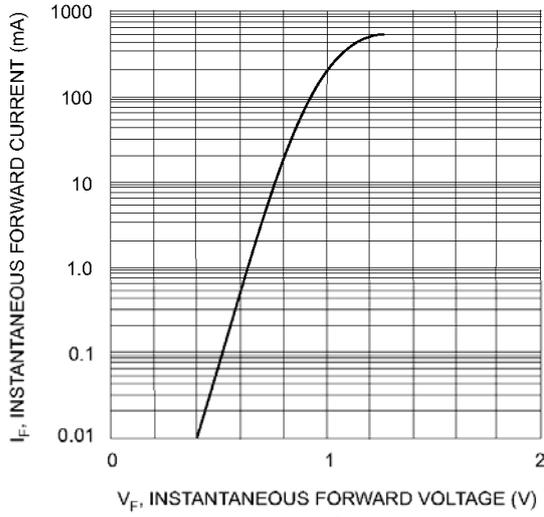


Fig. 1 Forward Characteristics

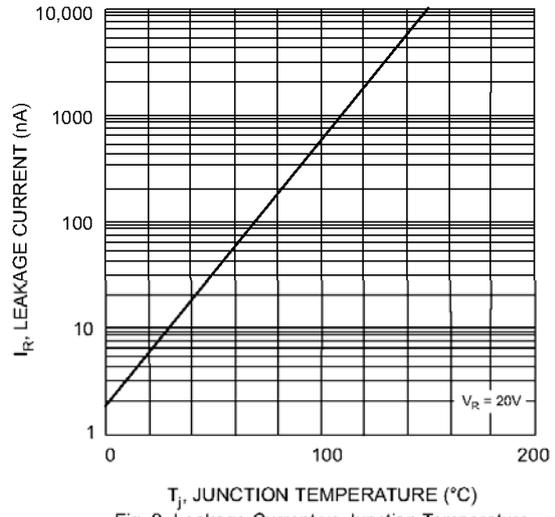
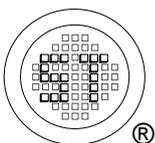


Fig. 2 Leakage Current vs Junction Temperature



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