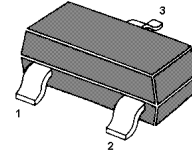
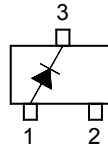


MMBD4448

Silicon Epitaxial Planar Switching Diode

Features

- Fast switching speed
- High Conductance



Marking Code: **5D**
TO-236 Plastic Package

Applications

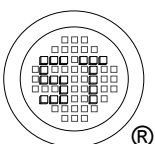
- For general purpose switching

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 Forward Current	$I_{F(AV)}$	250	mA
Forward Continuous Current	I_{FM}	500	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	2	A
		4	
Power Dissipation	P_d	350	mW
Junction and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

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 $V_R = 25\text{ V}, T_j = 150\text{ }^\circ\text{C}$ at $V_R = 75\text{ V}, T_j = 150\text{ }^\circ\text{C}$	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



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Dated : 16/03/2015 Rev:01

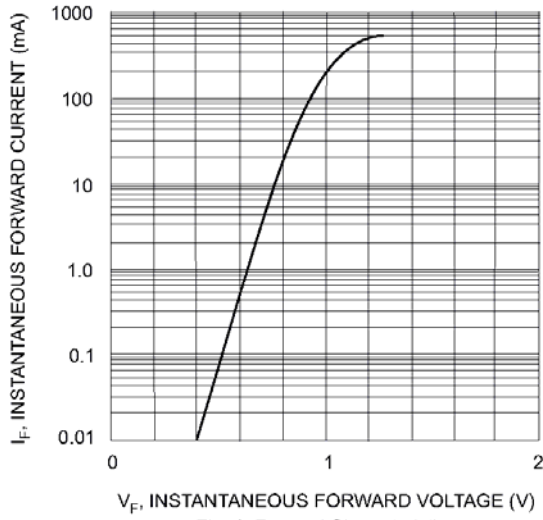


Fig. 1 Forward Characteristics

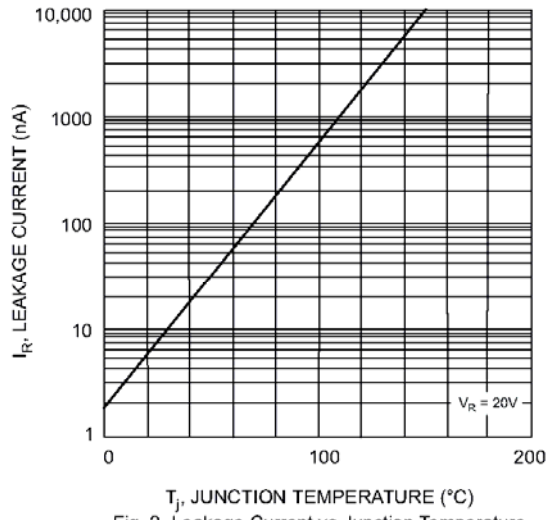
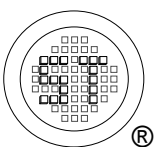


Fig. 2 Leakage Current vs Junction Temperature



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