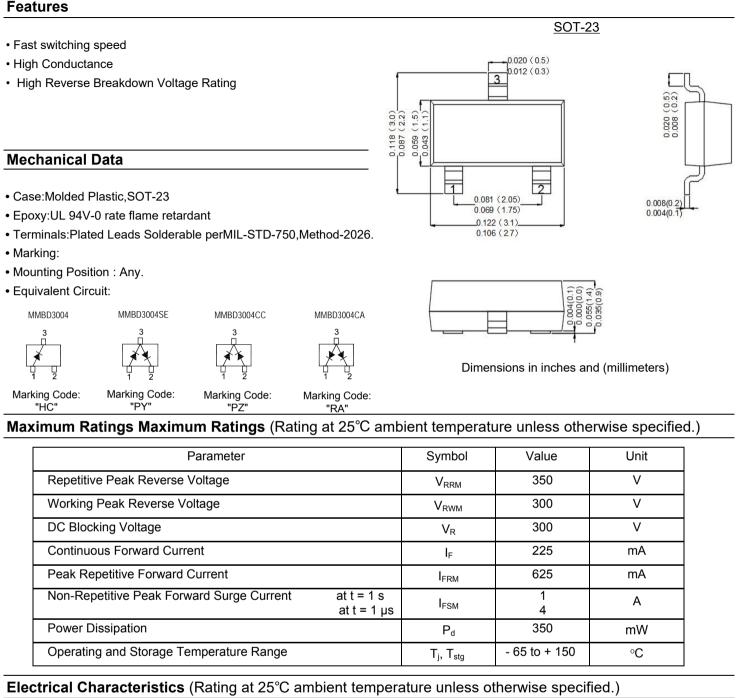


# MMBD3004 THRU MMBD3004CA

#### Silicon Epitaxial Planar Switching Diode



Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 20 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V <sub>F</sub>	- - -	0.87 1 1.25	V
Reverse Current at $V_R = 240 V$ at $V_R = 240 V$ , $T_i = 150 °C$	I <sub>R</sub>	-	100 100	nA μA
Reverse Breakdown Voltage at $I_R$ = 100 µA	V <sub>(BR)R</sub>	300	-	V
Total Capacitance at $V_R = 0$ , f = 1 MHz	C <sub>T</sub>	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30 \text{ mA}$ , $I_{rr} = 0.1 I_R$ , $R_L = 100 \Omega$	t <sub>rr</sub>	-	50	ns



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#### **Rating And Characteristic Curves**

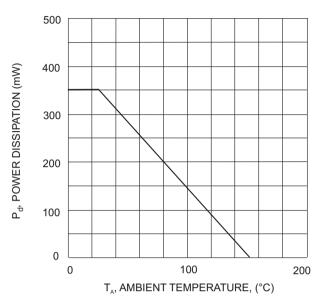
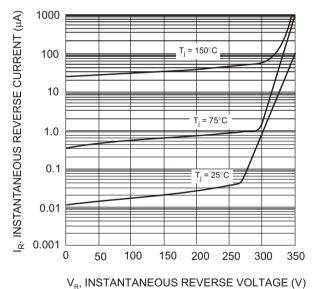


Fig. 1 Power Derating Curve, total package

Fig. 3 Typical Reverse Characteristics, per element



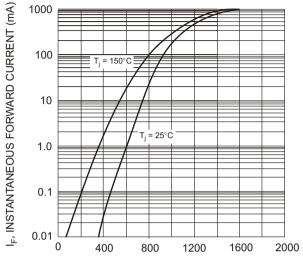


Fig. 2 Typical Forward Characteristics, per element

V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (mV)

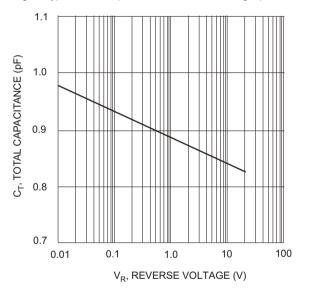


Fig. 4 Typical Total Capacitance vs. Reverse Voltage, per element



#### Silicon Epitaxial Planar Switching Diode

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