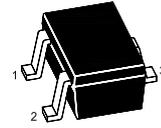
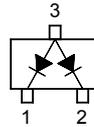


# MMBD202CAW

## SILICON EPITAXIAL PLANAR SWITCHING DIODE

### Application

- Ultra high speed switching



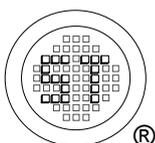
SOT-323 Plastic Package  
Marking Code: YX

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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	$V_{RM}$	80	V
Reverse Voltage	$V_R$	80	V
Average Forward Current (Single)	$I_O$	100	mA
Maximum Peak Forward Current (Single)	$I_{FM}$	300	mA
Surge Current at $t = 1\text{ }\mu\text{s}$ (Single)	$I_{FSM}$	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	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	$\mu\text{A}$
Capacitance Between Terminals at $V_R = 6\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	3.5	pF
Reverse Recovery Time at $V_R = 6\text{ V}$ , $I_F = 5\text{ mA}$ , $R_L = 50\text{ }\Omega$	$t_{rr}$	4	ns



**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. 05104

ISO 9001:2009  
Certificate No. 05105

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