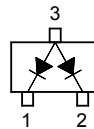
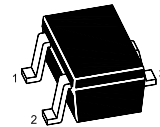


MMBD202CAW

SILICON EPITAXIAL PLANAR SWITCHING DIODE

Application

- Ultra high speed switching



SOT-323 Plastic Package

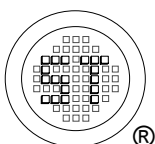
Marking Code: YX

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

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 $t = 1\ \mu\text{s}$ (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	$^\circ\text{C}$

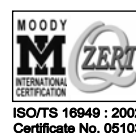
Characteristics at $T_a = 25^\circ\text{C}$

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	μA
Capacitance Between Terminals at $V_R = 6\ \text{V}$, $f = 1\ \text{MHz}$	C_T	3.5	pF
Reverse Recovery Time at $V_R = 6\ \text{V}$, $I_F = 5\ \text{mA}$, $R_L = 50\ \Omega$	t_{rr}	4	ns

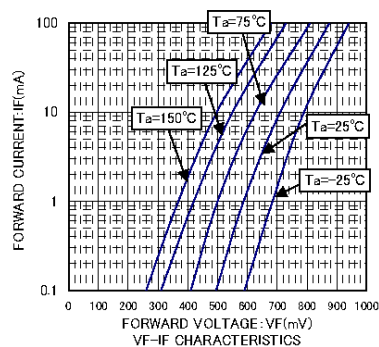
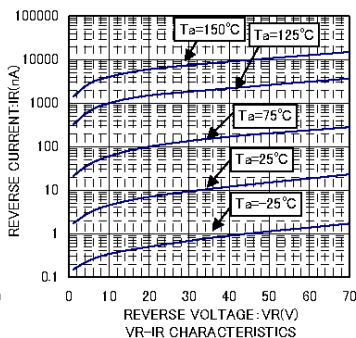
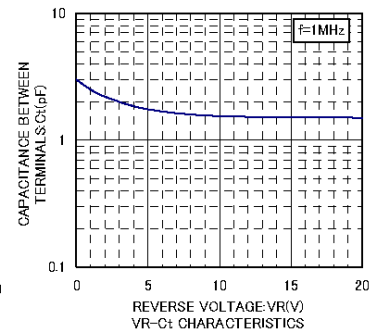
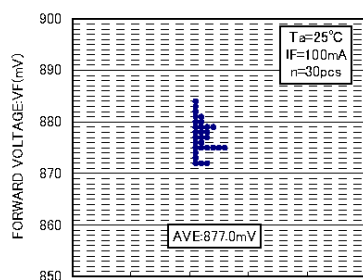
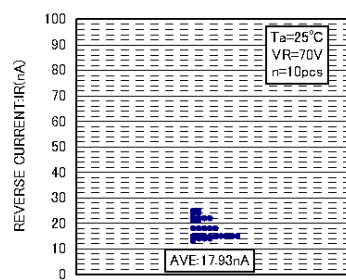
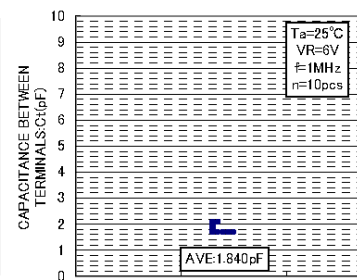
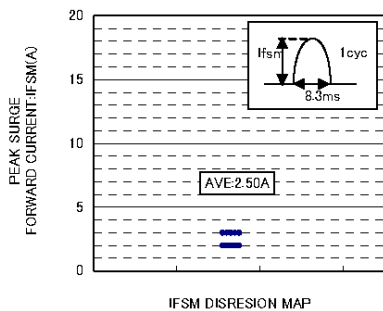
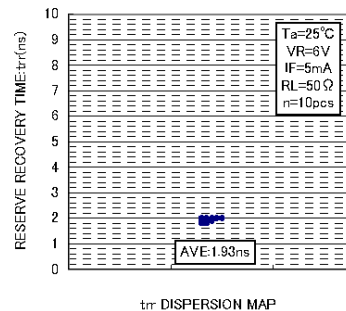
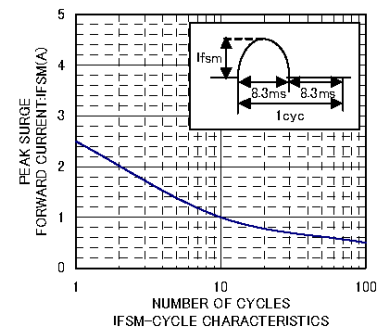
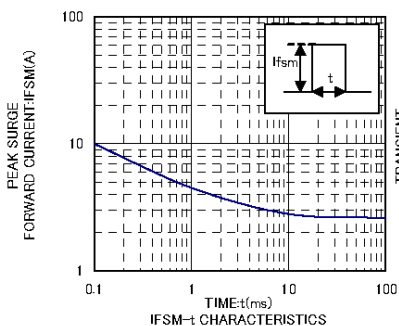
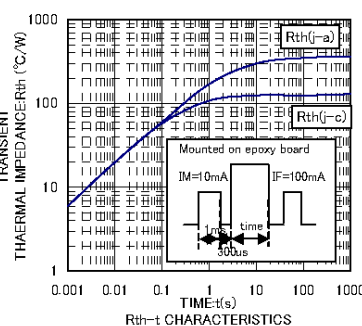
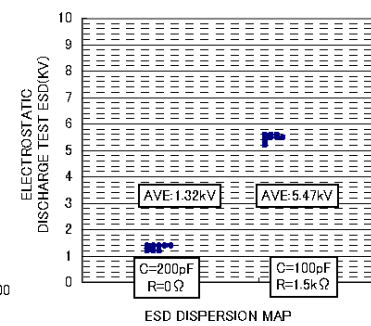
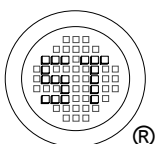


SEMTECH ELECTRONICS LTD.

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



Dated : 24/05/2008



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ISO/TS 16949:2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 24/05/2008