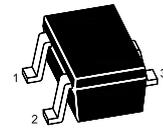
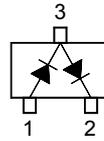


# MMBD217SEW

## SILICON EPITAXIAL PLANAR SWITCHING DIODE

### Applications

- Ultra high speed switching



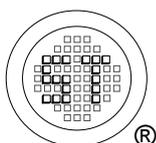
SOT-323 Plastic Package  
Marking Code: **A7**

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RM}$	80	V
Reverse Voltage	$V_R$	80	V
Average Rectified Forward Current (Single)	$I_O$	100	mA
Maximum (Peak) Forward Current (Single)	$I_{FM}$	300	mA
Peak Forward Surge Current ( $t_p = 1\text{ }\mu\text{s}$ )	$I_{FSM}$	4	A
Power Dissipation	$P_d$	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 $I_F = 5\text{ mA}$ , $V_R = 6\text{ V}$ , $R_L = 50\text{ }\Omega$	$t_{rr}$	4	ns



## SEMTECH ELECTRONICS LTD.

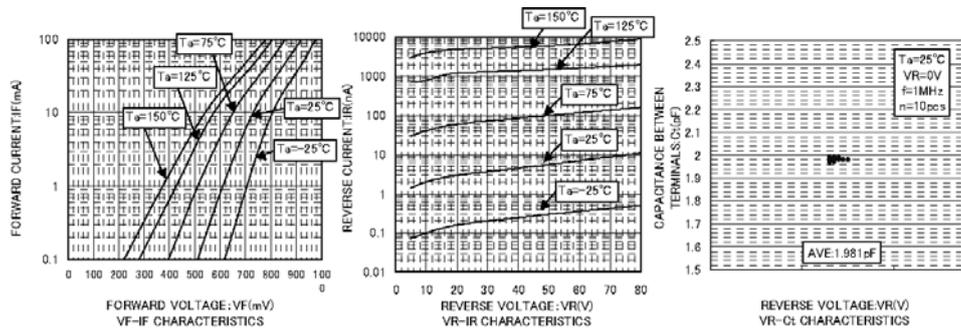
(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



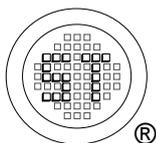
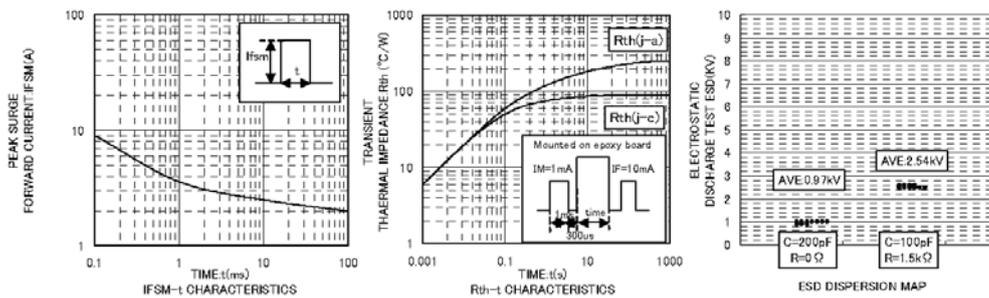
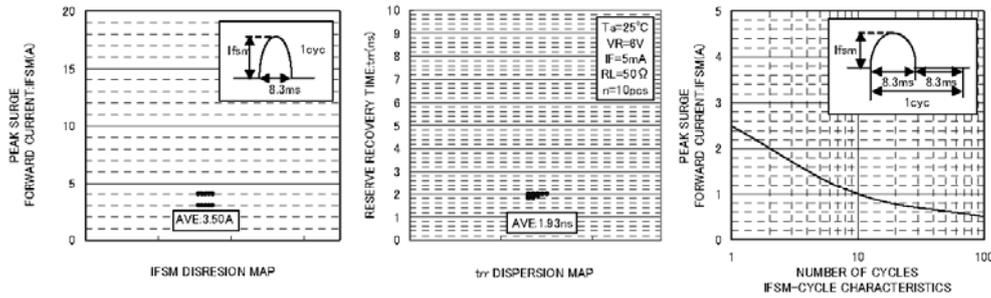
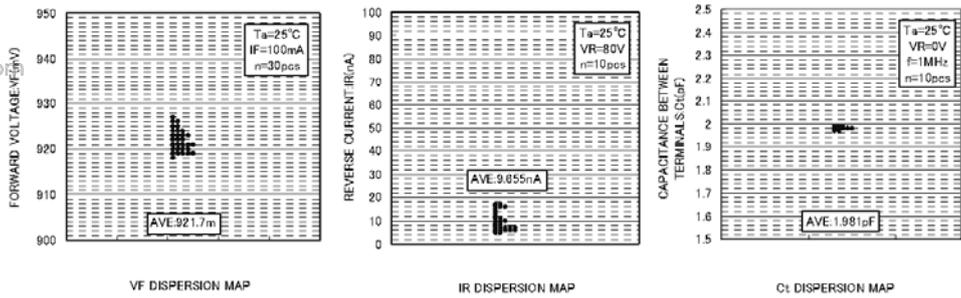
ISO/TS 16949 : 2002 Certificate No. 05103  
ISO 14001:2004 Certificate No. 014  
ISO 9001:2000 Certificate No. 014

Dated : 10/10/2008

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ISO/TS 16949 : 2002 Certificate No. 05103  
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Dated : 10/10/2008