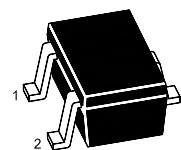
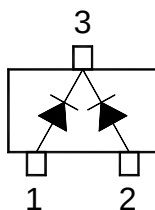


BAT378W

SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE



SOT-323 Plastic Package

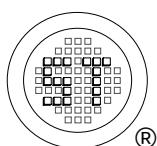
Marking Code: **B7**

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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	15	V
Reverse Voltage	V_R	10	V
Maximum Peak Forward Current	I_{FM}	200	mA
Surge Forward Current (10 ms)	I_{FSM}	1	A
Average Forward Current	I_O	100	mA
Power Dissipation	P_{tot}	100	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +125	$^\circ\text{C}$
Operating Temperature Range	T_{opr}	-40 to +100	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 5\text{ mA}$ at $I_F = 100\text{ mA}$	V_F	- -	- -	0.3 0.5	V
Reverse Current at $V_R = 10\text{ V}$	I_R	-	-	20	μA
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_T	-	20	40	pF

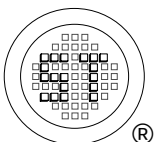
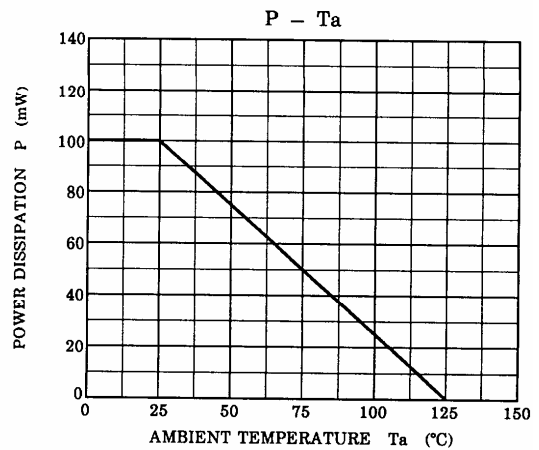
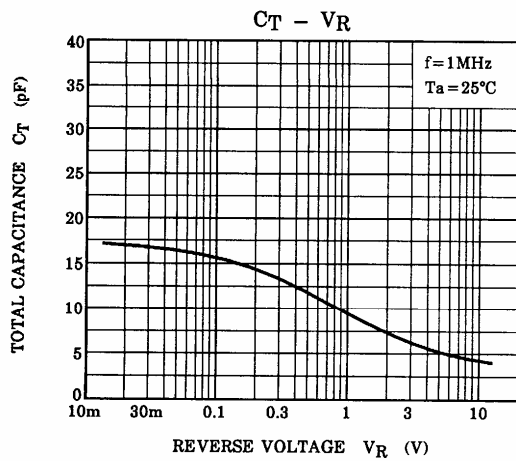
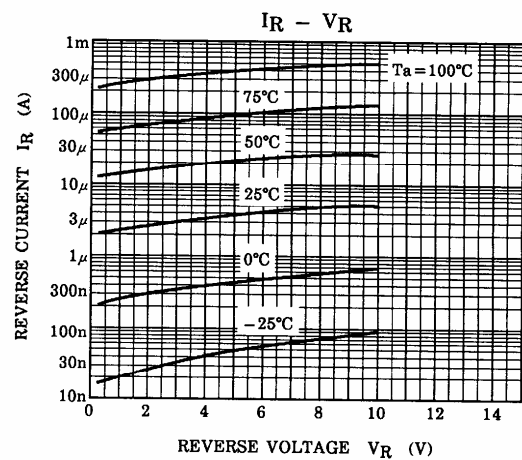
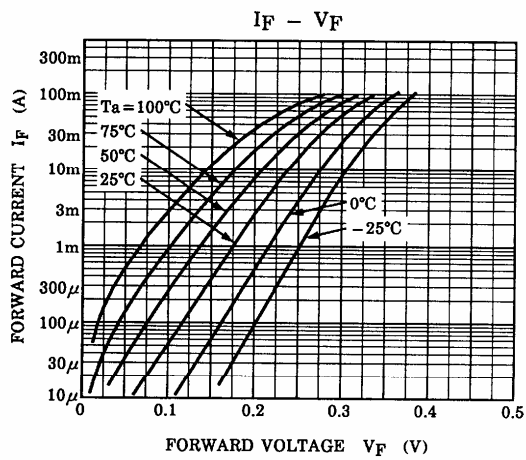


SEMTECH ELECTRONICS LTD.

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



Dated : 27/02/2006



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 27/02/2006