

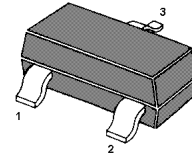
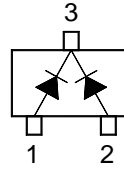
1SS321

SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

For low voltage high speed switching application

Features

- Low forward voltage
- Low reverse current



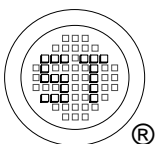
Marking Code: "ZC"
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	12	V
Reverse Voltage	V_R	10	V
Average Forward Current	I_O	50	mA
Maximum Peak Forward Current	I_{FM}	150	mA
Non-Repetitive Peak Forward Surge Current ($t = 10\text{ ms}$)	I_{FSM}	1	A
Power Dissipation	P_d	150	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 50\text{ mA}$	V_F	-	1	V
Reverse Current at $V_R = 10\text{ V}$	I_R	-	500	nA
Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$	$V_{(BR)R}$	12	-	V
Total Capacitance at $V_R = 0$, $f = 1\text{ MHz}$	C_T	-	4.5	pF



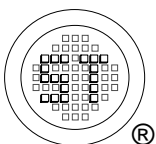
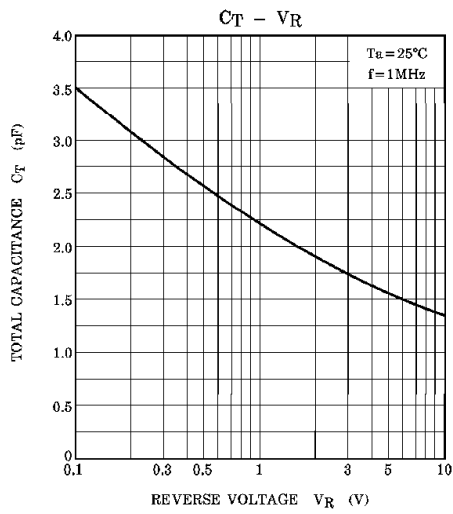
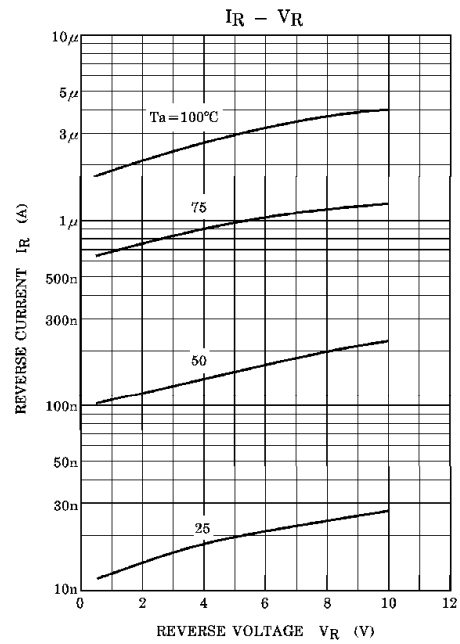
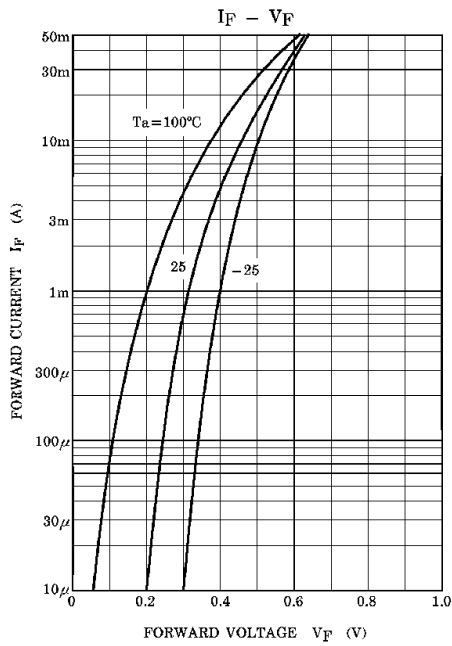
SEMTECH ELECTRONICS LTD.

(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. 7116
ISO 9001:2000 Certificate No. 0506098

Dated : 04/12/2007



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