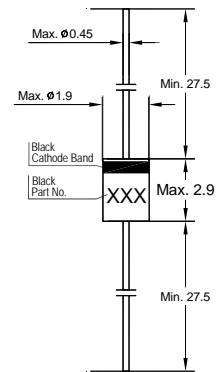


# MA700B

## SILICON SCHOTTKY BARRIER DIODE



Glass Case DO-34  
Dimensions in mm

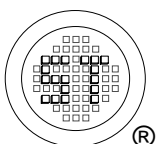
### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	20	V
Power Dissipation	$P_{tot}$	400 <sup>1)</sup>	mW
Peak Surge Current (Single Cycle 60 Hz Sine Wave)	$I_{FSM}$	15	A
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_S$	- 55 to + 175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

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

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 90\text{ mA}$	$V_F$	-	1	V
Reverse Leakage Current at $V_R = 20\text{ V}$	$I_R$	-	30	$\mu\text{A}$
Junction Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_{tot}$	50	-	pF
Reverse Recovery Time at $I_F = I_R = 5\text{ mA}$ to $200\text{ mA}$ , recover to $0.1 I_R$	$t_{rr}$	10	-	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. 7116



ISO 9001:2000  
Certificate No. 0506098

Dated : 25/06/2007