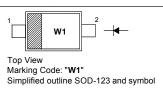
SILICON EPITAXIAL PLANAR DIODE

Fast Switching Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



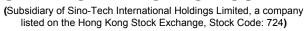
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit	
Peak Reverse Voltage	V_{RM}	100	V	
Reverse Voltage	V_R	80	V	
Average Rectified Output Current	Io	150	mA	
Forward Continuous Current	I _{FM}	300	mA	
Non-Repetitive Peak Forward Surge Current (at t = 1 μs)	I _{FSM}	0.5	Α	
Power Dissipation	P _d	400	mW	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	T _{stg}	- 65 to + 150	°C	

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 5$ mA at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 150$ mA	V _F	0.62 - - -	0.72 0.855 1 1.25	V
Reverse Leakage Current at V_R = 80 V at V_R = 20 V at V_R = 75 V, T_J = 150 °C at V_R = 25 V, T_J = 150 °C	I _R		100 25 50 30	nA nA µA µA
Reverse Breakdown Voltage at I_R = 100 μ A	$V_{(BR)R}$	80	-	V
Capacitance at $V_R = 0.5 \text{ V}$, $f = 1 \text{ MHz}$	C _{tot}	-	4	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	4	ns







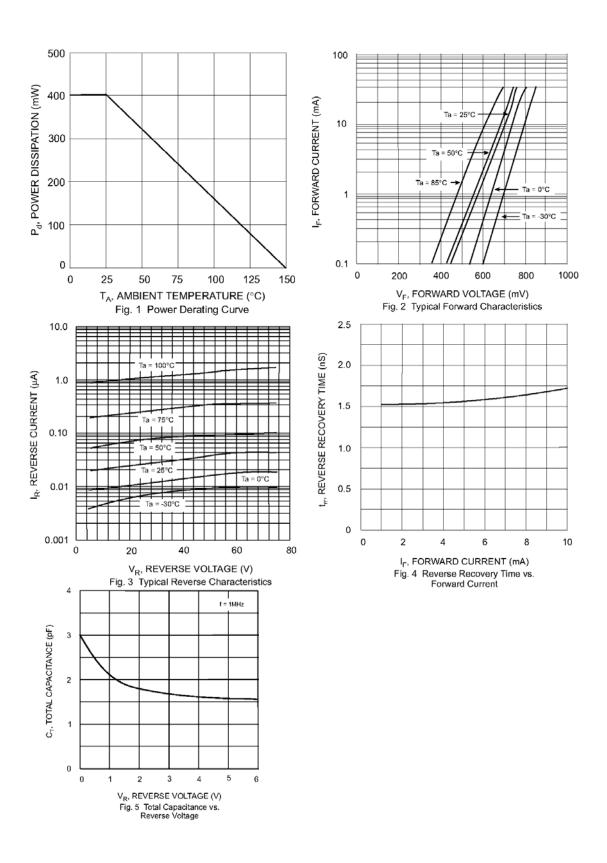








Dated: 07/04/2009





SEMTECH ELECTRONICS LTD.

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







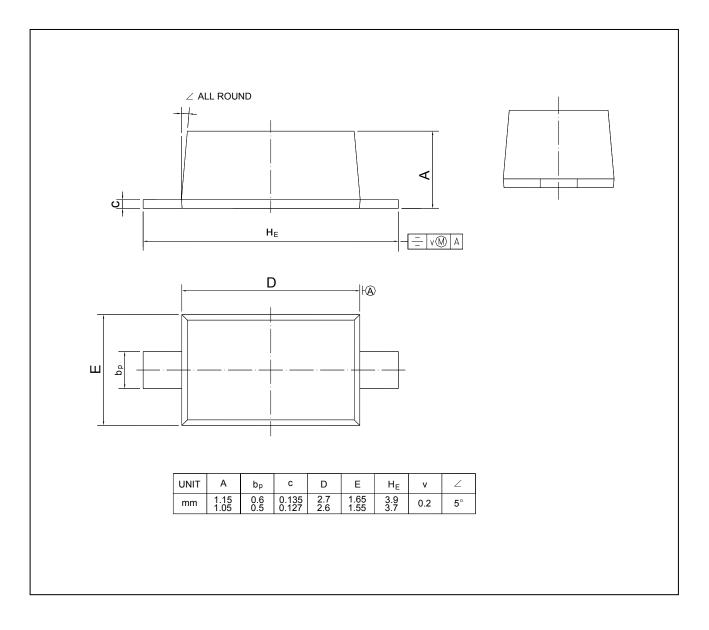




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123





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