RB500V-40

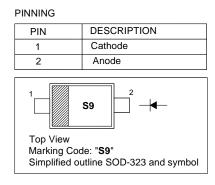
SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

Features

- Small surface mounting type
- $\bullet \mbox{ Low } I_R$
- High reliability

Applications

• Low current rectification



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit	
Peak Reverse Voltage	V _{RM}	45	V	
Power Dissipation	P _{tot}	200	mW	
Reverse Voltage	V _R	40	V	
Mean Rectifying Current	Ι _ο	0.1	А	
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I _{FSM}	1	А	
Junction Temperature	Tj	125	°C	
Storage Temperature Range	Ts	- 40 to + 125	°C	

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

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \ \mu A$	V _{(BR)R}	45	-	-	V
Forward Voltage at I _F = 10 mA	V _F	-	-	0.45	V
Reverse Current at $V_R = 10 V$	I _R	-	-	1	μA
Capacitance Between Terminals at $V_R = 10 V$, f = 1 MHz	Ст	-	6	-	pF

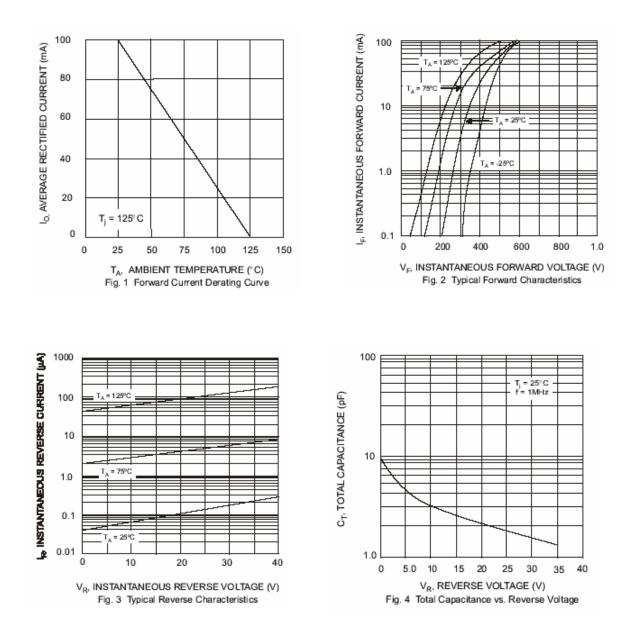
Note: ESD sensitive product handling required.







Dated : 01/09/2006







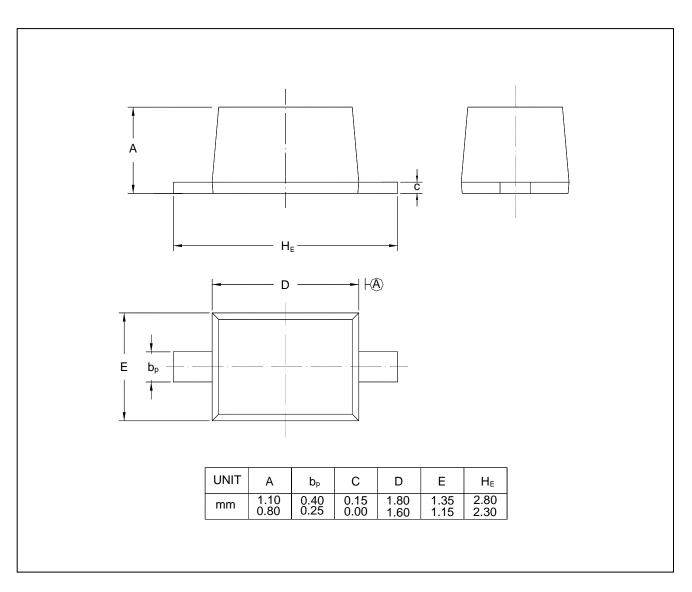


Dated : 01/09/2006

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323





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



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