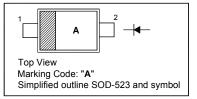
Silicon Epitaxial Planar Switching Diode

Features

- · Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- · High conductance

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

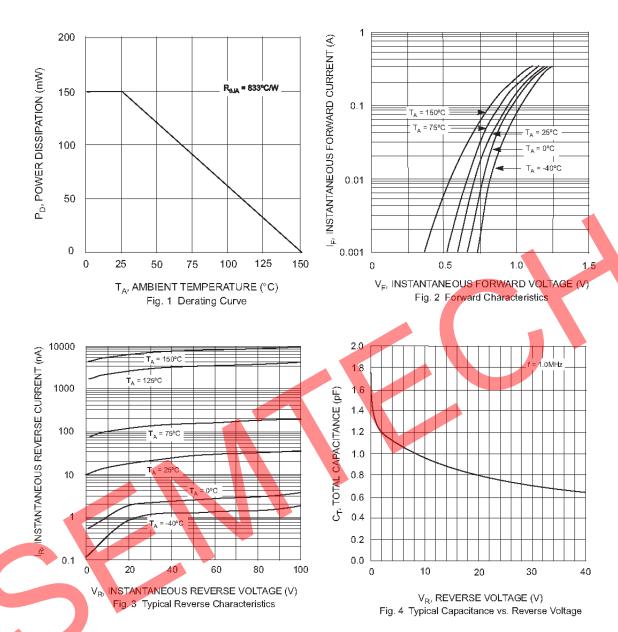
Parameter	Symbol	Value	Unit	
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V	
Reverse Voltage	V_R	75	٧	
Average Rectified Forward Current	I _{F(AV)}	125	mA	
Forward Continuous Current	I _{FM}	250 mA		
Non-repetitive Peak Forward Surge Current at t = 1 μs at t = 100 ms	I _{FSM}	2 1 A		
Power Dissipation	P _{tot}	150 mW		
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	°C/W	
Operating Temperature Range	Tj	- 65 to + 150	150 °C	
Storage Temperature Range	T _{stg}	- 65 to + 150	°C	

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 1 μA	$V_{(BR)R}$	75	-	V
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V _F	- - -	0.715 0.855 1 1.25	V
Peak Reverse Current at V_R = 75 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	- - -	1 25 50 30	μΑ nA μΑ μΑ
Total Capacitance at $V_R = 0 V$, $f = 1 MHz$	C _T	-	2	pF
Reverse Recovery Time at I_{rr} = 0.1 X I_{R} , I_{F} = I_{R} = 10 mA, R_{L} = 100 Ω	t _{rr}	-	4	ns



Dated: 15/06/2009





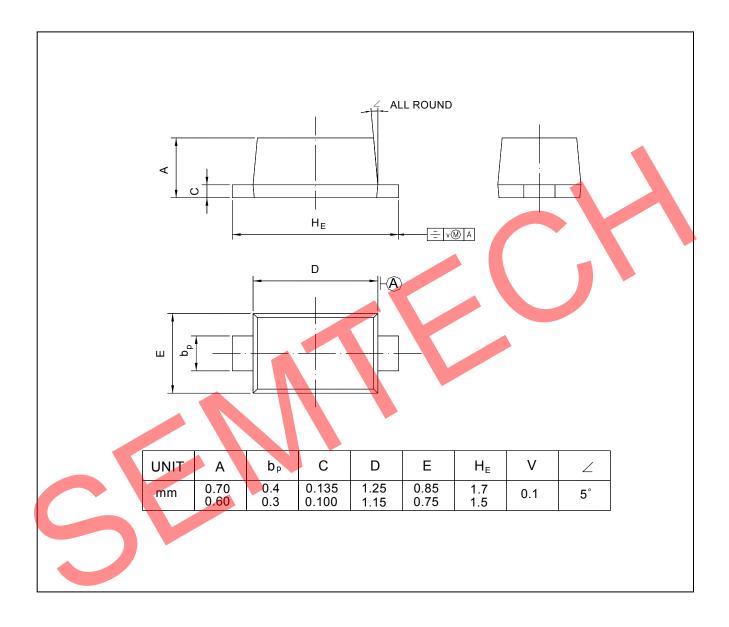


Dated: 15/06/2009

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523





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