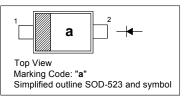
High Voltage Switching Diode

Applications

- high speed switching
- high voltage switching

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	300	V
Reverse Voltage	V_R	300	V
Continuous Forward Current	l _F	225	mA
Repetitive Peak Forward Current	I _{FRM}	625	mA
Non-Repetitive Peak Forward Current (1 µs)	I _{FSM}	4	Α
Power Dissipation	P _{tot}	250	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _s	- 65 to + 150	°C

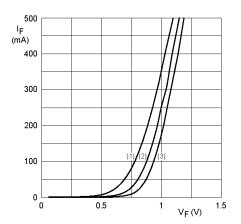
Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 100 mA	V _F	-	1.1	V
Reverse Breakdown Voltage at I_R = 100 μA	$V_{(BR)R}$	300	-	V
Reverse Current at V _R = 250 V	I _R	-	150	nA
Reverse Recovery Time at $I_F = I_R = 30$ mA, $R_L = 100 \Omega$, $i_{rr} = 0.1 I_R$	t _{rr}	-	50	ns
Total Capacitance at V _R = 0 V, f = 1 MHz	Ст	-	5	pF





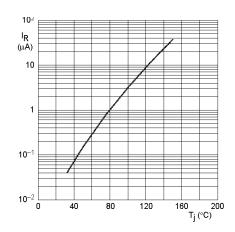






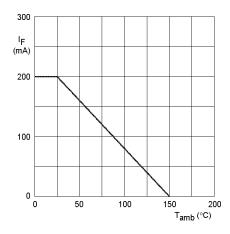
- (2) T_{amb} = 75 °C. (3) T_{amb} = 25 °C.

Forward current as a function of forward voltage; typical values.

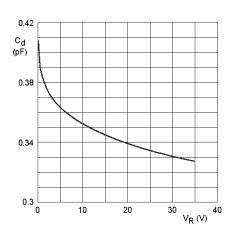


 $V_R = V_{Rmax}$; typical values.

Reverse current as a function of junction temperature.



Maximum permissible continuous forward current as a function of ambient temperature.



Diode capacitance as a function of reverse voltage; typical values.

SEMTECH ELECTRONICS LTD.

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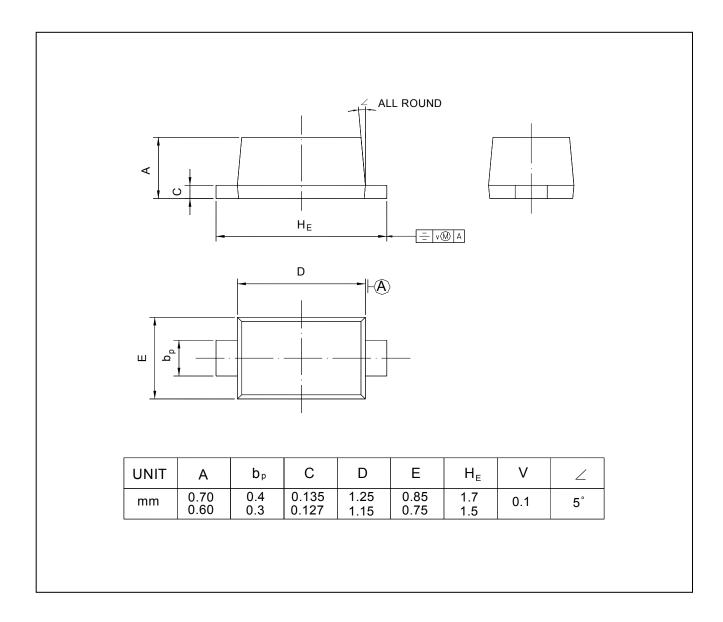


Dated: 13/07/2007

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523





Dated: 13/07/2007