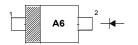


Applications

• High-speed 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}	100	V	
Reverse Voltage	V_R	100	V	
Continuous Forward Current	I _F	250	mA	
Repetitive Peak Forward Current	I _{FRM}	500	mA	
Non-Repetitive Peak Forward Current $t = 1 \mu s$ t = 1 ms t = 1 s		I _{FSM}	4 1 0.5	Α
Total Power Dissipation		P _{tot}	200	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T_{stg}	- 65 to + 150	°C

Characteristics at $T_a = 25$ °C

Parameter	Symbol	Max.	Unit
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
Reverse Current at V_R = 25 V at V_R = 75 V at V_R = 25 V, T_J = 150 °C at V_R = 75 V, T_J = 150 °C	I _R	30 1 30 50	nΑ μΑ μΑ μΑ
Diode Capacitance at V _R = 0 V, f = 1 MHz	C _{tot}	1.5	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

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Typical Characteristics

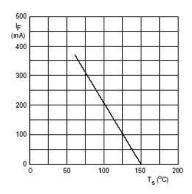
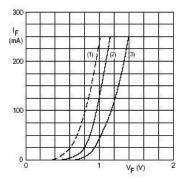


Fig.1 Maximum permissible continuous forward current as a function of soldering point temperature.



- (1) T_i = 150 °C; typical values.
 (2) T_i = 25 °C; typical values.
 (3) T_i = 25 °C; maximum values.

Fig. 2 Forward current as a function of forward

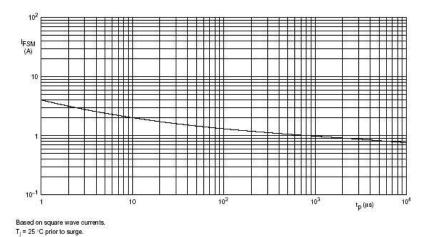


Fig. 3 Maximum permissible non-repetitive peak forward current as a function of pulse duration.

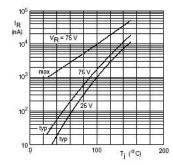
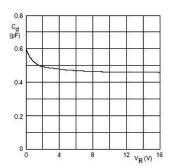


Fig. 4 Reverse current as a function of junction temperature.



f = 1 MHz; T_j = 25 °C.

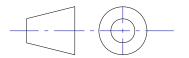
Fig. 5 Diode capacitance as a function of reverse voltage; typical values.

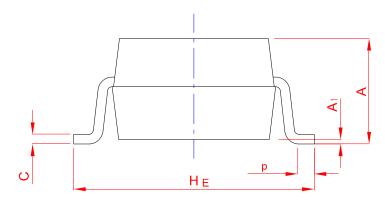


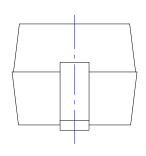
PACKAGE OUTLINE

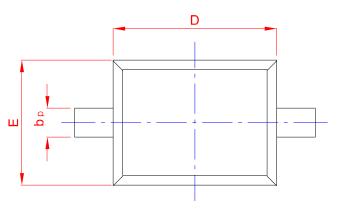
Plastic surface mounted package; 2 leads

SOD-323









UNIT	Α	bр	С	D	E	HE	A 1	Lp
mm	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50
	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20

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