

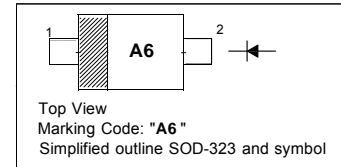
### Applications

- High-speed switching

**MARKING:**A6

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

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	$I_{FSM}$	4	A
		1	
		0.5	
Total Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 150\text{ mA}$	$V_F$	0.715	V
		0.855	
		1	
		1.25	
Reverse Current at $V_R = 25\text{ V}$ at $V_R = 75\text{ V}$ at $V_R = 25\text{ V}, T_J = 150\text{ }^\circ\text{C}$ at $V_R = 75\text{ V}, T_J = 150\text{ }^\circ\text{C}$	$I_R$	30	nA
		1	$\mu\text{A}$
		30	$\mu\text{A}$
		50	$\mu\text{A}$
Diode Capacitance at $V_R = 0\text{ V}, f = 1\text{ MHz}$	$C_{tot}$	1.5	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100\ \Omega$	$t_{rr}$	4	ns

Typical Characteristics

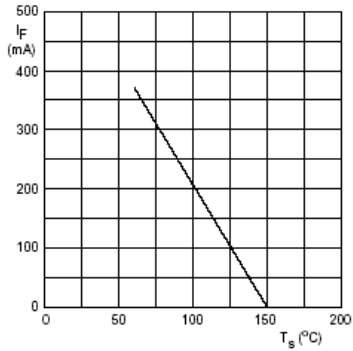
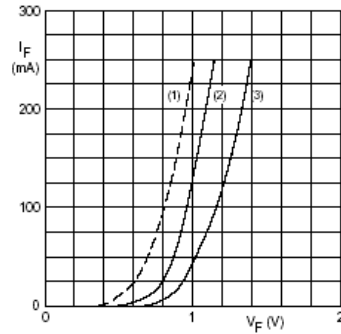
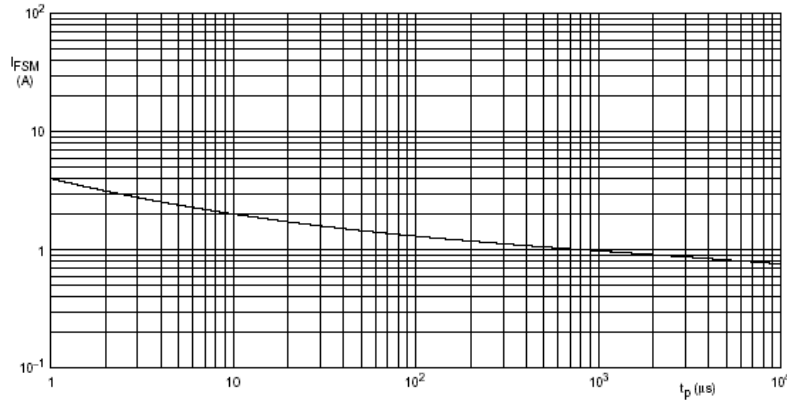


Fig. 1 Maximum permissible continuous forward current as a function of soldering point temperature.



(1)  $T_j = 150^\circ\text{C}$ ; typical values.  
(2)  $T_j = 25^\circ\text{C}$ ; typical values.  
(3)  $T_j = 25^\circ\text{C}$ ; maximum values.

Fig. 2 Forward current as a function of forward voltage.



Based on square wave currents.  
 $T_j = 25^\circ\text{C}$  prior to surge.

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

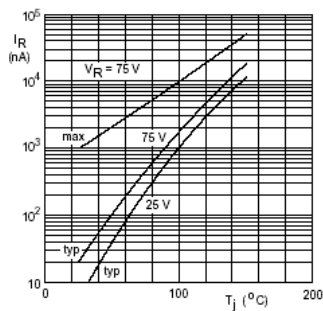
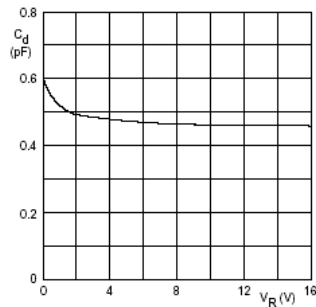


Fig. 4 Reverse current as a function of junction temperature.



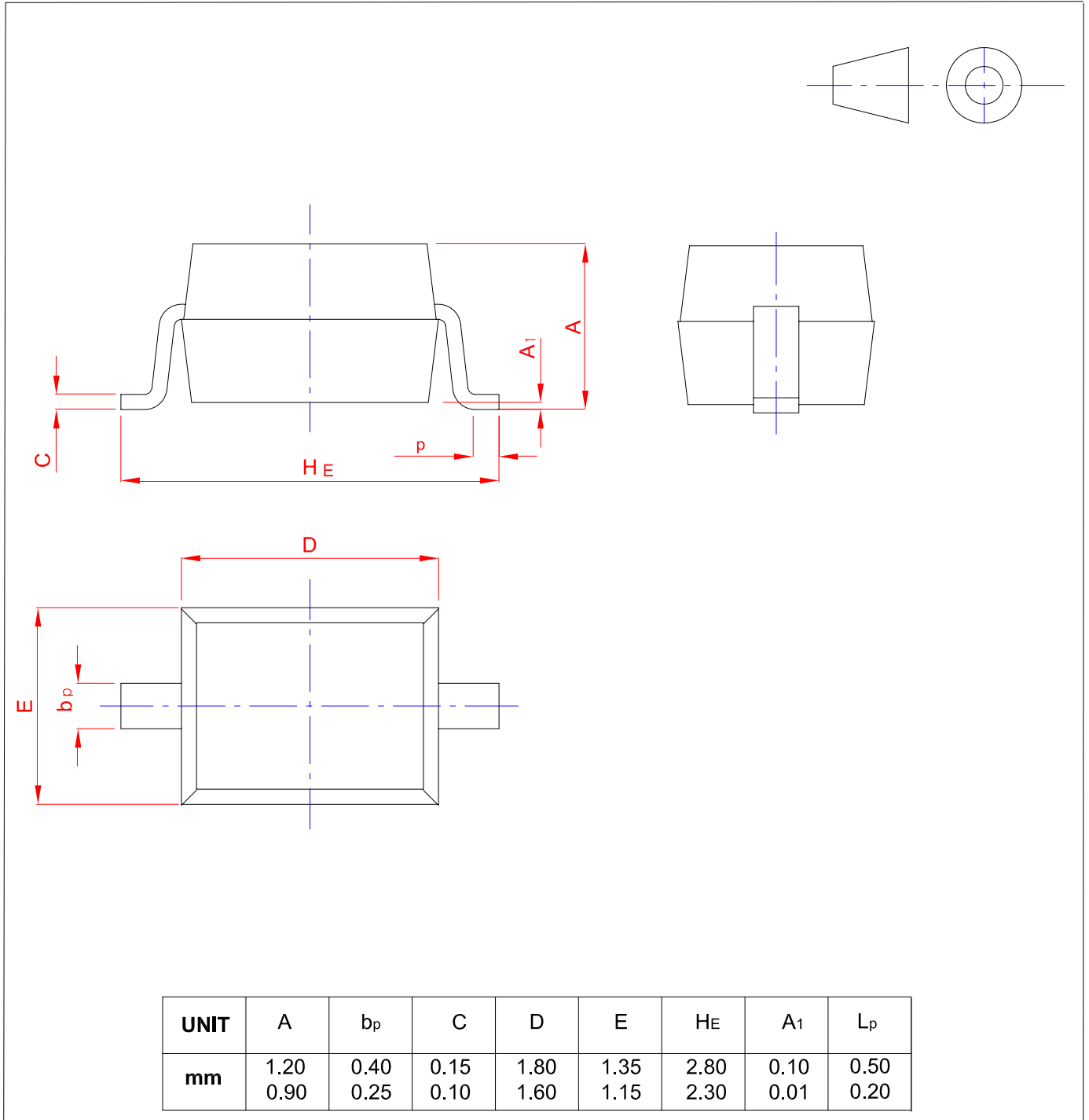
$f = 1\text{ MHz}$ ;  $T_j = 25^\circ\text{C}$ .

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

**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-323



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