

SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

Features

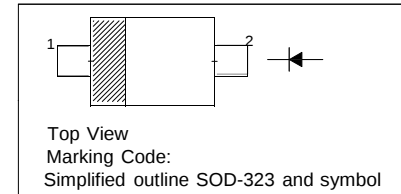
- Small surface mounting type
- Low I_R
- High reliability

Applications

- Low current rectification

Marking:S4

PIN	DESCRIPTION
1	Cathode
2	Anode



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

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	I_O	0.1	A
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I_{FSM}	1	A
Junction Temperature	T_j	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^{\circ}\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	45	-	-	V
Forward Voltage at $I_F = 10\text{ mA}$	V_F	-	-	0.45	V
Reverse Current at $V_R = 10\text{ V}$	I_R	-	-	1	μA
Capacitance Between Terminals at $V_R = 10\text{ V}$, $f = 1\text{ MHz}$	C_T	-	6	-	pF

Note: ESD sensitive product handling required.

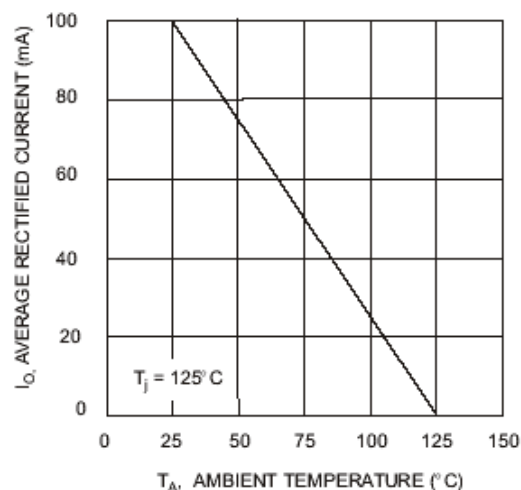


Fig. 1 Forward Current Derating Curve

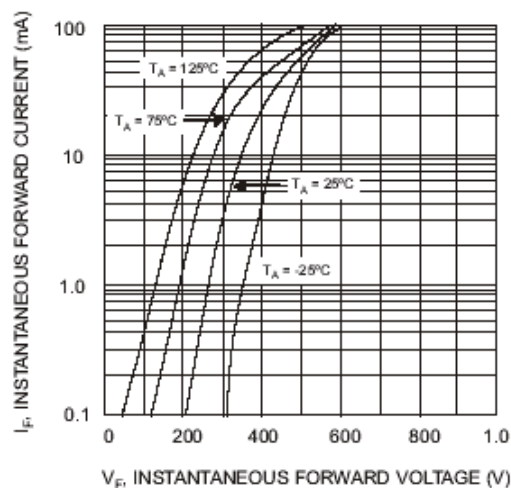


Fig. 2 Typical Forward Characteristics

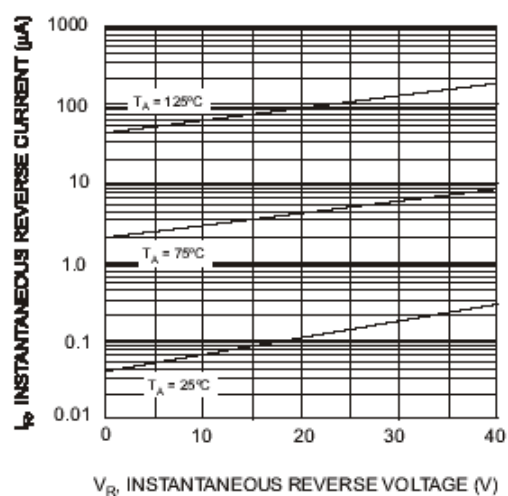


Fig. 3 Typical Reverse Characteristics

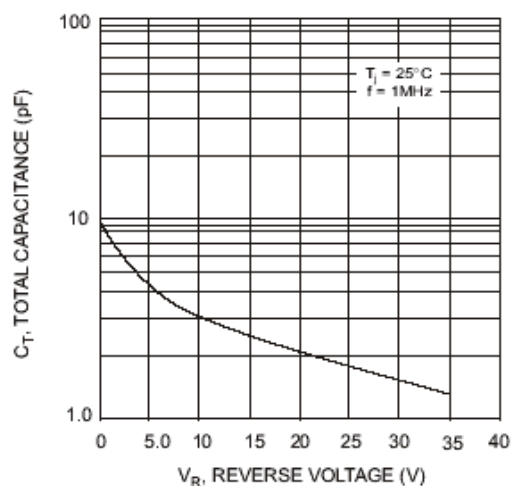
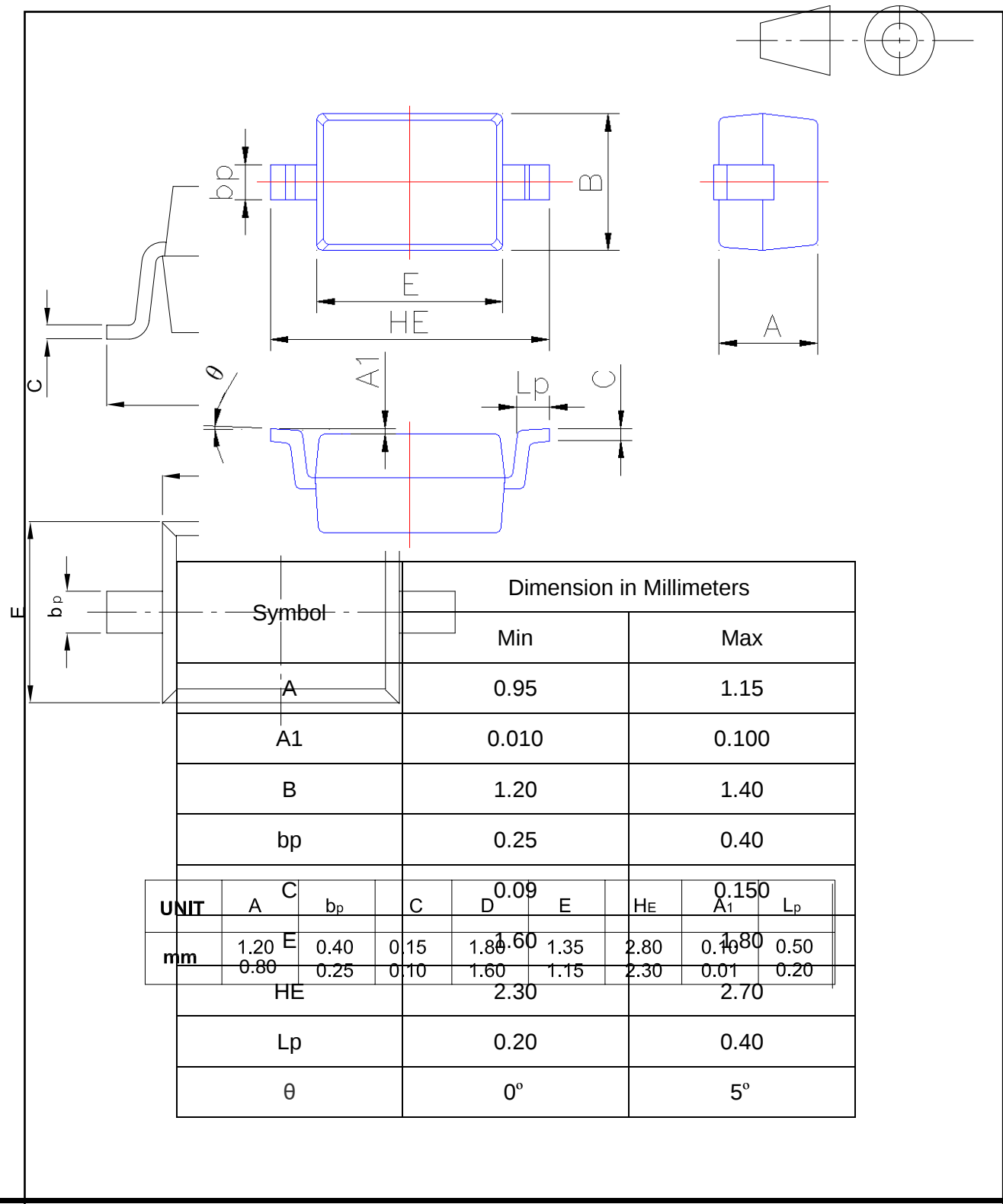


Fig. 4 Total Capacitance vs. Reverse Voltage

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



Symbol		Dimension in Millimeters	
		Min	Max
A		0.95	1.15
A1		0.010	0.100
B		1.20	1.40
bp		0.25	0.40
C		0.09	0.150
UNIT	A	1.20	1.80
	C	0.40	0.15
mm	bp	0.25	0.10
	C	0.15	1.80
	D	1.60	1.35
	E	1.60	1.15
	HE	2.30	2.80
	A1	0.01	0.10
	Lp	0.20	0.50
	theta	0°	5°