

# 1SS352

## SILICON EPITAXIAL PLANAR DIODE

### Features

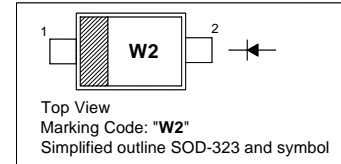
- Low forward voltage
- Fast Reverse Recovery Time
- Small Total Capacitance

### Application

- Ultra high speed switching

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

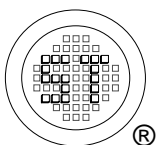


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	$V_{RM}$	85	V
Reverse Voltage	$V_R$	80	V
Average Forward Current	$I_O$	100	mA
Maximum (Peak) Forward Current	$I_{FM}$	200	mA
Surge Forward Current (10 ms)	$I_{FSM}$	1	A
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 125	$^\circ\text{C}$

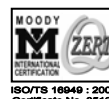
### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

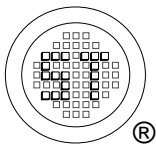
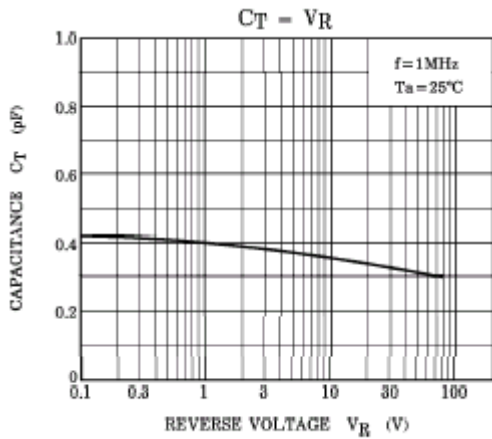
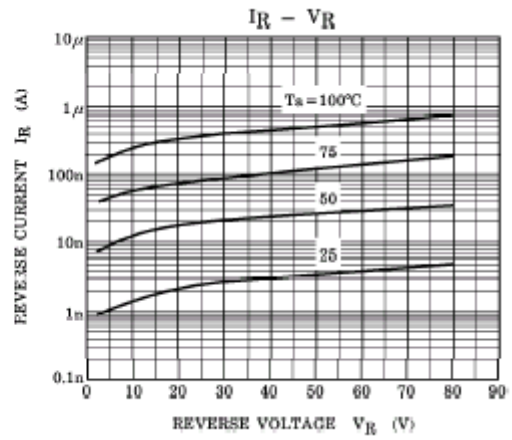
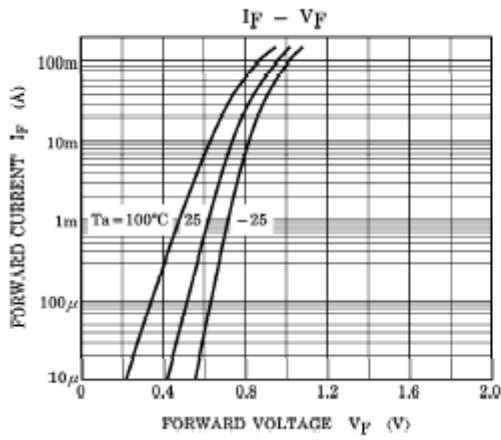
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	1.2	V
Reverse Current at $V_R = 30\text{ V}$ at $V_R = 80\text{ V}$	$I_R$	0.1 0.5	$\mu\text{A}$
Total Capacitance at $f = 1\text{ MHz}$	$C_T$	3	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$	$t_{rr}$	4	ns



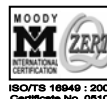
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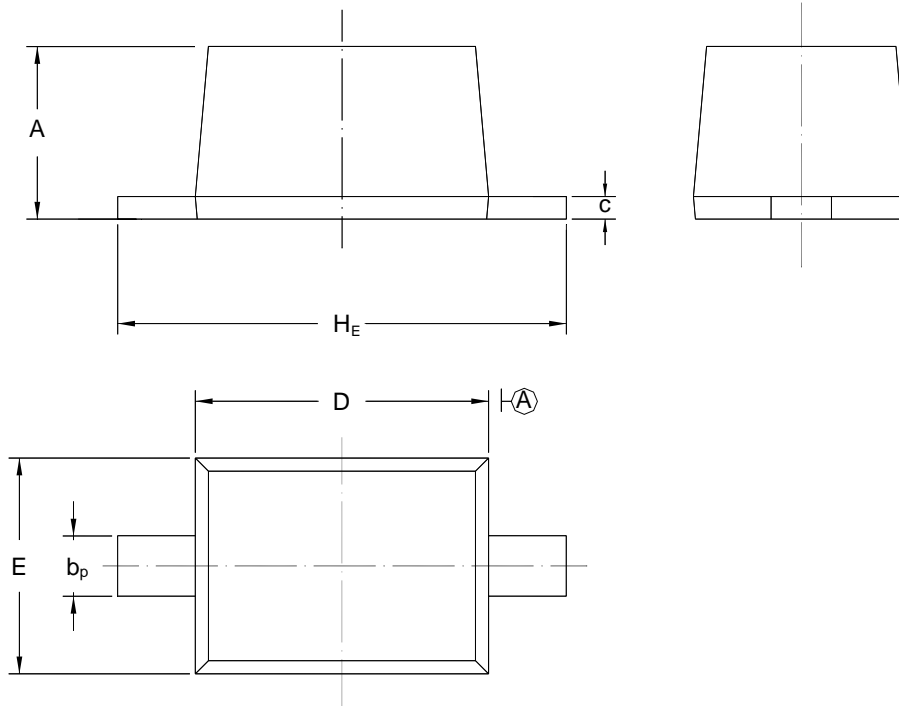
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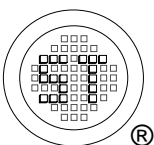
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

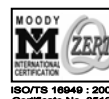
SOD-323



UNIT	A	$b_p$	C	D	E	$H_E$
mm	1.10 0.80	0.40 0.25	0.15 0.00	1.80 1.60	1.35 1.15	2.80 2.30



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ISO/TS 16949:2002  
Certificate No. 05103

ISO 14001:2004  
Certificate No. 7116

ISO 9001:2000  
Certificate No. 050059

BS-OHSAS 18001:2007  
Certificate No. 7116

IECQ QC 080000  
Certificate No. 05103