

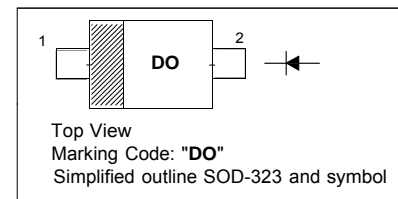
## SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

### Applications

- Super-high speed switching circuit
- Small current rectification

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Peak Forward Current	$I_{FM}$	300	mA
Average Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current <sup>1)</sup>	$I_{FSM}$	1	A
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

<sup>1)</sup> The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)

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

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	-	0.55	V
Reverse Current at $V_R = 30\text{ V}$	$I_R$	-	50	$\mu\text{A}$
Terminal Capacitance at $f = 1\text{ MHz}$	$C_T$	30	-	pF
Reverse Recovery Time at $I_F = I_R = 100\text{ mA}$ , $I_{rr} = 10\text{ mA}$ , $R_L = 100\ \Omega$	$t_{rr}$	3	-	ns



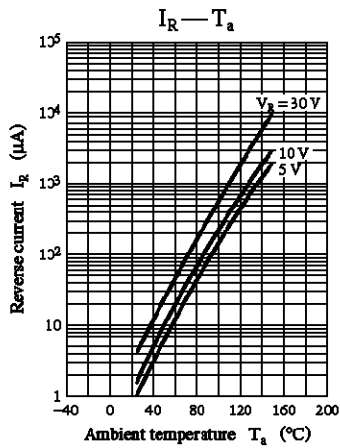
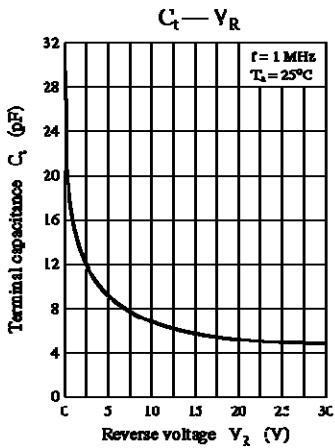
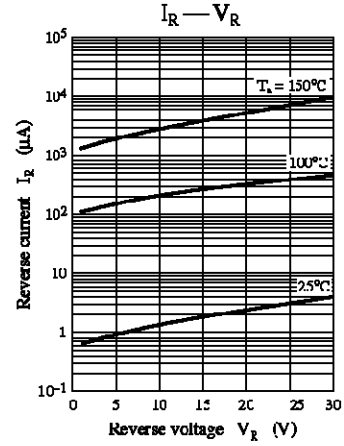
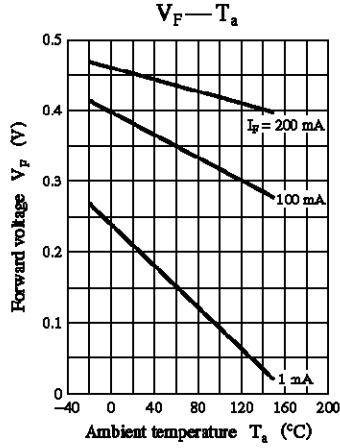
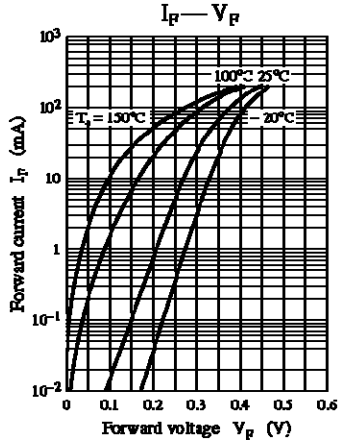
**CHINA BASE**  
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**SOD-323**

**MA721WS**



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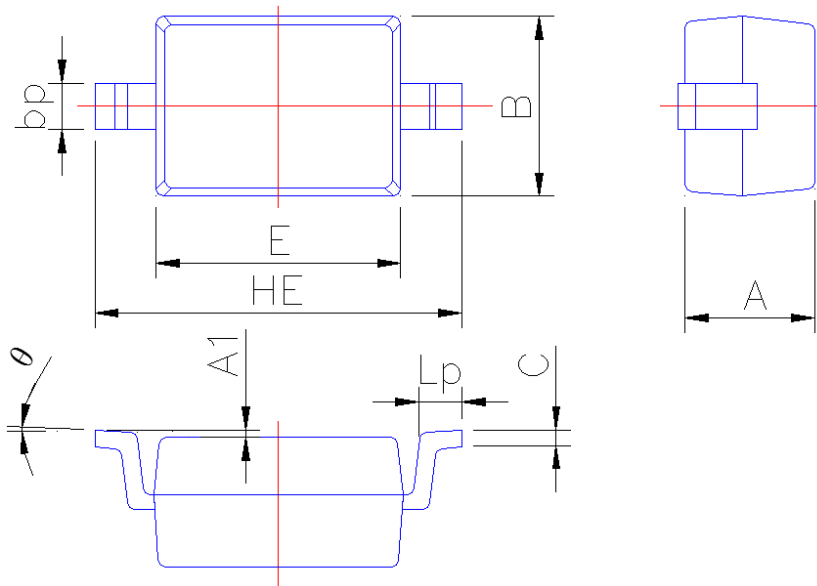




## PACKAGE OUTLINE

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
E	1.60	1.80
HE	2.30	2.70
Lp	0.20	0.40
θ	0°	5°