



FUKUCOM COMPANY LTD.

福靈有限公司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 852-2790 0314 FAX: 852-2790 0206

1SS352

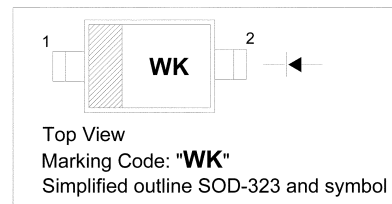
SILICON EPITAXIAL PLANAR TYPE Ultra High Speed Switching Application

Features

- Low forward voltage:
 $V_{F(3)} = 0.98V$ (typ.)
- Fast Reverse Recovery Time:
 $t_{rr} = 1.6ns$ (typ.)
- Small Total Capacitance:
 $C_T = 0.5pF$ (typ.)

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

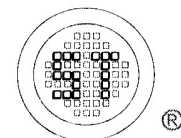


Absolute Maximum Ratings ($T_j = 25^\circ C$)

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

Characteristics at $T_j = 25^\circ C$

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward Voltage	$I_F = 1mA$	V_F	-	0.62	-	V
	$I_F = 10mA$	V_F	-	0.75	-	V
	$I_F = 100mA$	V_F	-	0.98	1.20	V
Reverse Current	$V_R = 30V$	I_R	-	-	0.1	μA
	$V_R = 80V$	I_R	-	-	0.5	μA
Total Capacitance	$f = 1MHz$	C_T	-	0.5	3.0	pF
Reverse Recovery Time	$I_F = 10mA$	t_{rr}	-	1.6	4.0	ns



SEMTECH
Dated : 30/10/2004



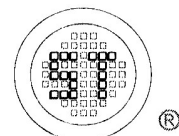
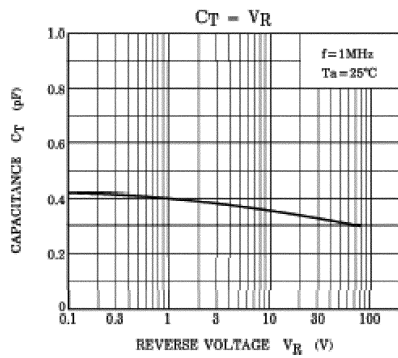
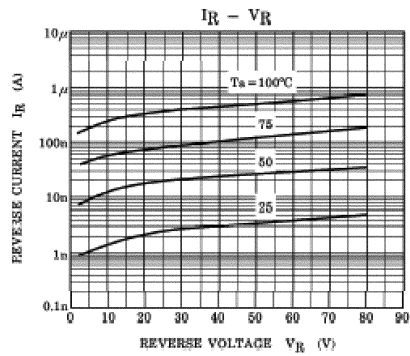
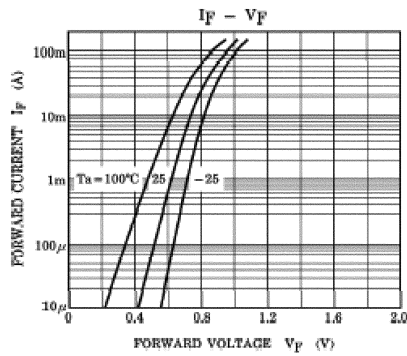
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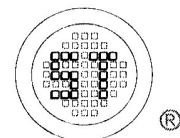
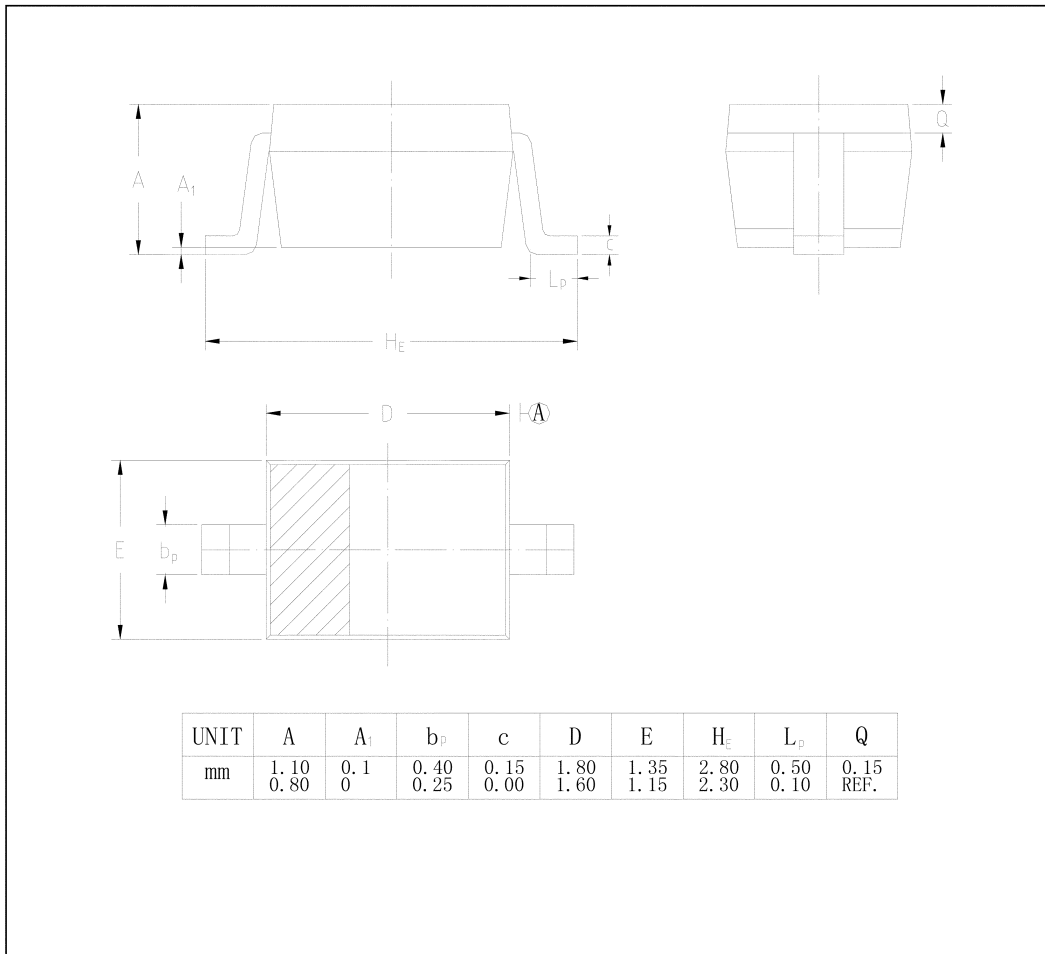
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



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