

# 1SS390

## SILICON EPITAXIAL PLANAR DIODE

### Band swithing diode

#### FEATURES

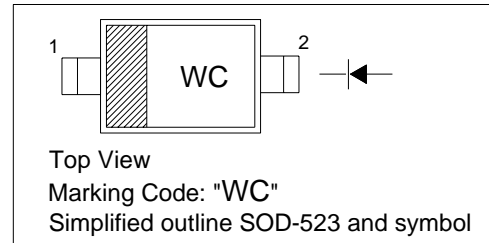
- Extremely small surface mounting type.
- High reliability.

#### APPLICATIONS

- High frequency switching.

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

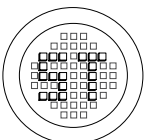


#### Absolute Maximum Ratings (Ta = 25 °C)

Characteristics	Symbol	Limits	Unit
DC reverse voltage	$V_R$	35	V
DC forward current	$I_F$	100	mA
Junction temperature	$T_J$	125	°C
Storage temperature range	$T_{stg}$	-55 ... +125	°C

#### Electrical Characteristics (Ta = 25 °C)

Characteristics	Symbol	Min	Typ	Max	Unit	Test Conditions
Forward voltage	$V_F$	-	-	1.0	V	$I_F = 10\text{mA}$
Reverse current	$I_R$	-	-	10	nA	$V_R = 25\text{V}$
Capacitance between terminals	$C_T$	-	-	1.2	pF	$V_R = 6\text{V}, f = 1\text{MHz}$
Forward operating resistance	$R_F$	-	-	0.9	$\Omega$	$I_F = 2\text{mA}, f = 100\text{MHz}$



®

РАДИОТЕХ

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● Electrical characteristic curves (Ta=25°C)

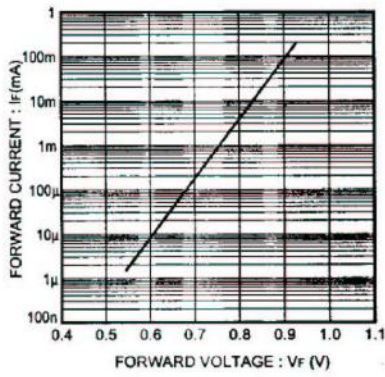


Fig. 1 Forward characteristics

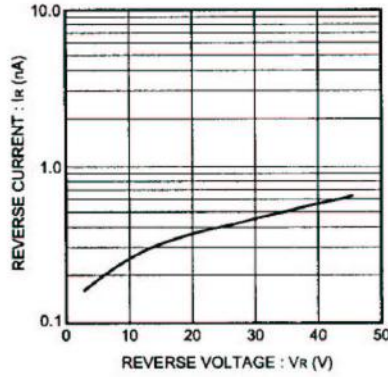


Fig. 2 Reverse characteristics

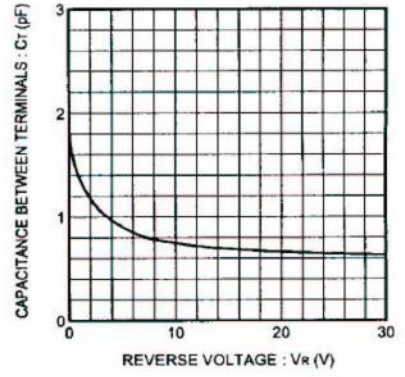


Fig. 3 Capacitance between terminals characteristics

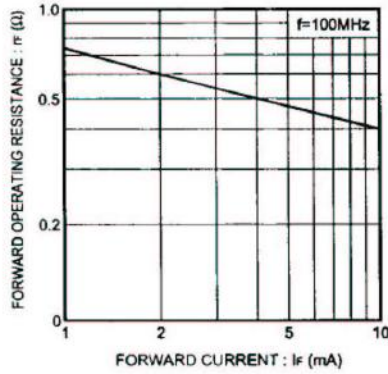
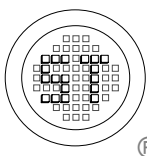
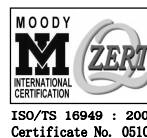


Fig. 4 Forward operating resistance characteristics



**SEMTECH ELECTRONICS LTD.**

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ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 037-100-0100-001

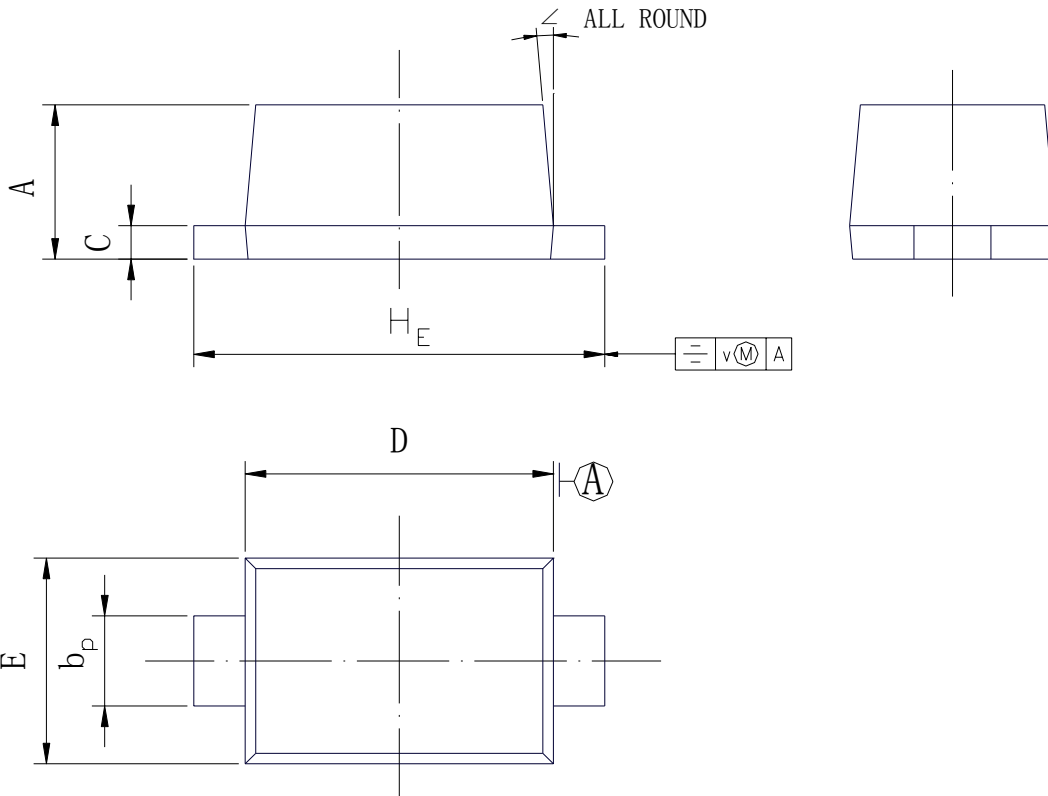
Dated : 15/09/2004

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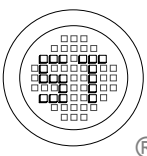
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523

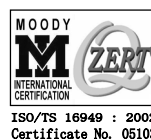


UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	v	∠
mm	0.70 0.60	0.4 0.3	0.135 0.127	1.25 1.15	0.85 0.75	1.65 1.55	0.1	5°



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