

# 1SS404WS

## SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

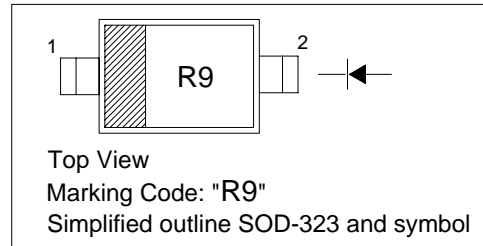
### High Speed Switching Application

#### Features

- Excellent in Forward Current and Forward Voltage Characteristics:  $V_{F(3)} = 0.8V$  (typ.)
- Fast Reverse Recovery Time:  $I_R = 50\mu A$  (Max.)
- Small Total Capacitance:  $C_T = 46pF$  (typ.)

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

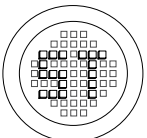


#### Absolute Maximum Ratings ( $T_j = 25^\circ C$ )

Parameter	Symbol	Value	Unit
Maximum (peak) Reverse Voltage	$V_{RM}$	25	V
Reverse Voltage	$V_R$	20	V
Maximum (peak) Forward Current	$I_{FM}$	700	mA
Average Forward Current	$I_O$	300	mA
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_J$	125	°C
Storage Temperature Range	$T_s$	-55 to +125	°C

#### Characteristics at $T_j = 25^\circ C$

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward Voltage	$I_F = 1mA$	$V_F$	-	0.16	-	V
	$I_F = 10mA$	$V_F$	-	0.22	-	V
	$I_F = 300mA$	$V_F$	-	0.38	0.45	V
Reverse Current	$V_R = 20V$	$I_R$	-	-	50	$\mu A$
Total Capacitance	$f = 1MHz$	$C_T$	-	46	-	pF

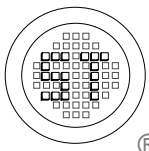
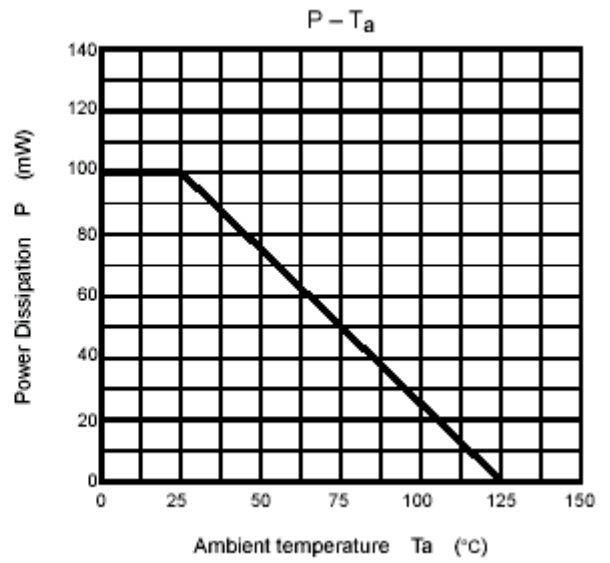
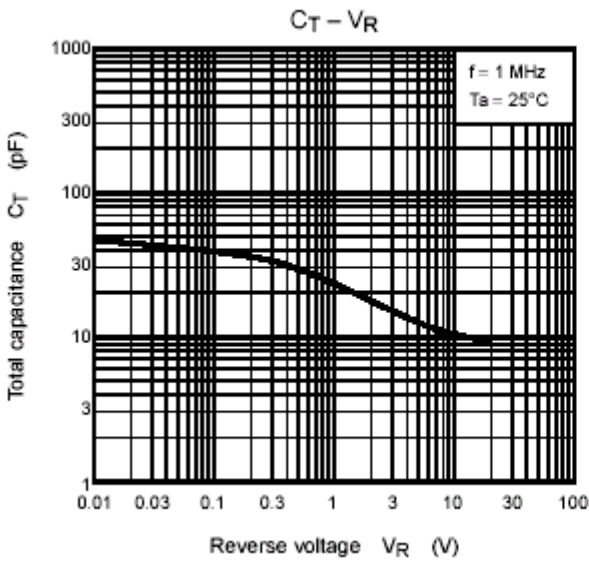
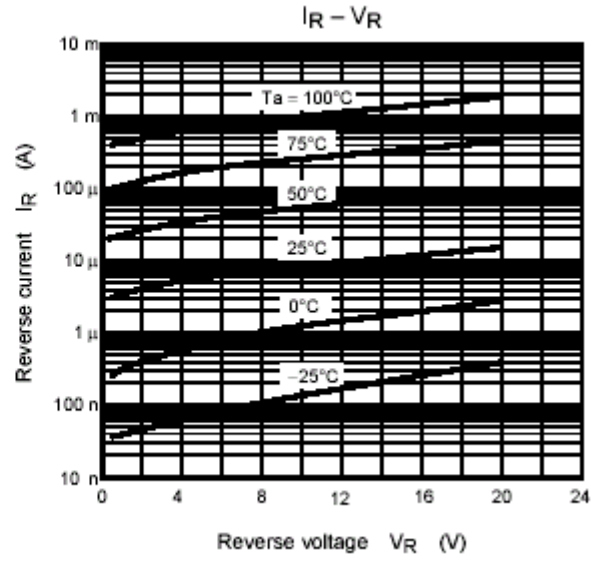
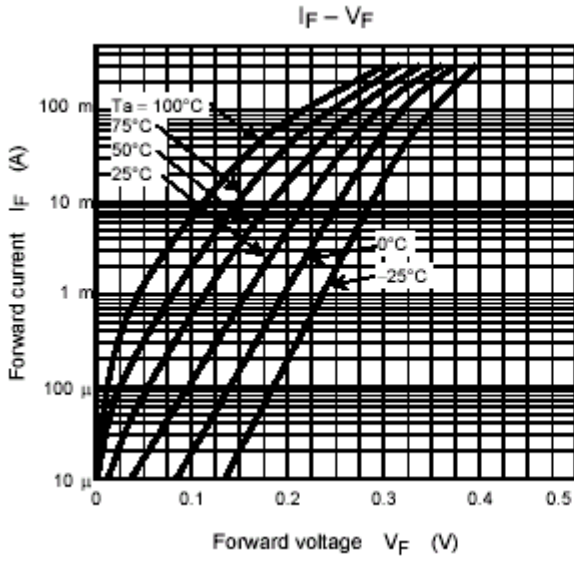


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## SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 550-159-04-002-04

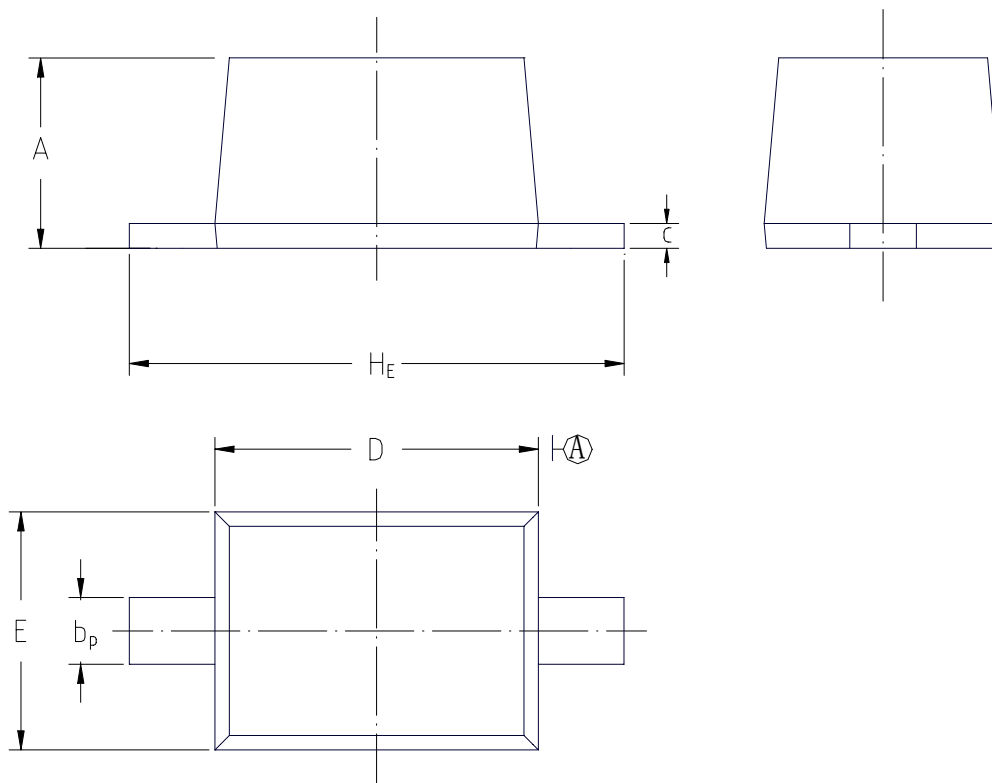
Dated : 11/11/2004

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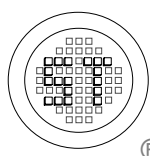
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b <sub>p</sub>	c	D	E	H <sub>E</sub>
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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