

1SS404WS

SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

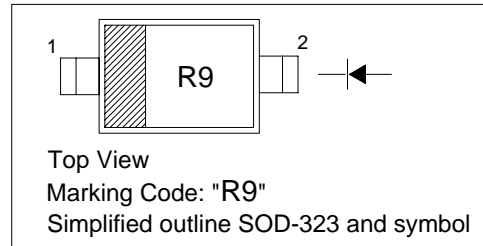
High Speed Switching Application

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

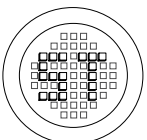


Absolute Maximum Ratings ($T_j = 25^\circ C$)

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	?
Storage Temperature Range	T_s	-55 to +125	?

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	μA
Total Capacitance	$f = 1MHz$	C_T	-	46	-	pF

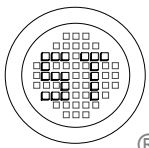
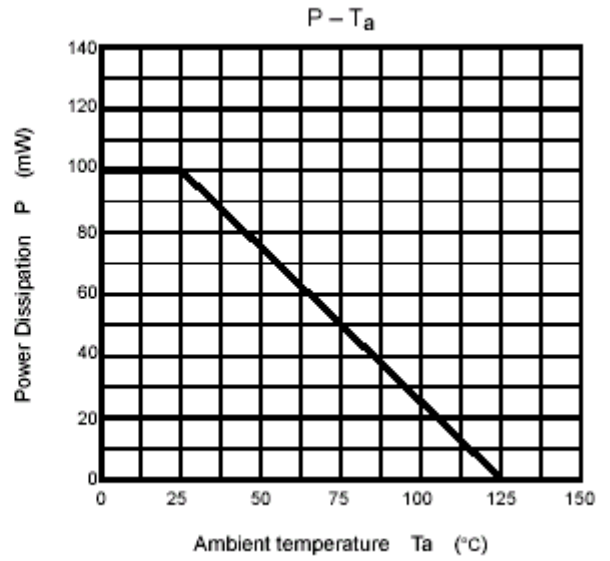
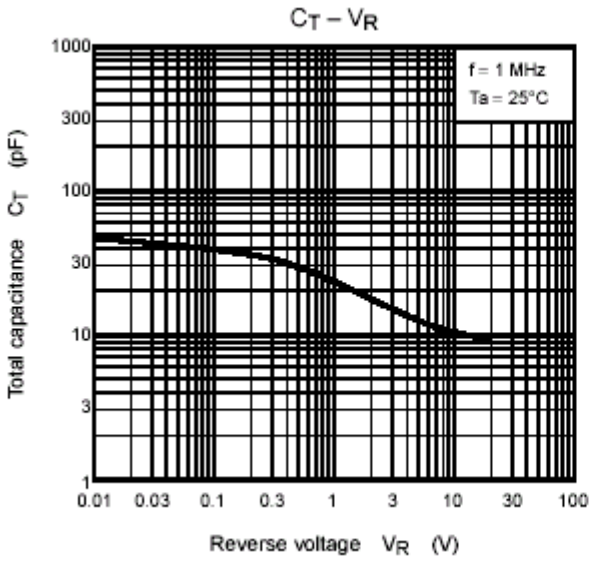
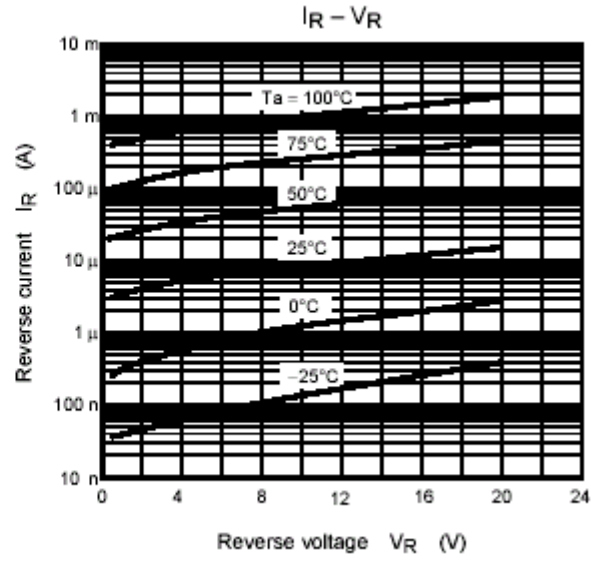
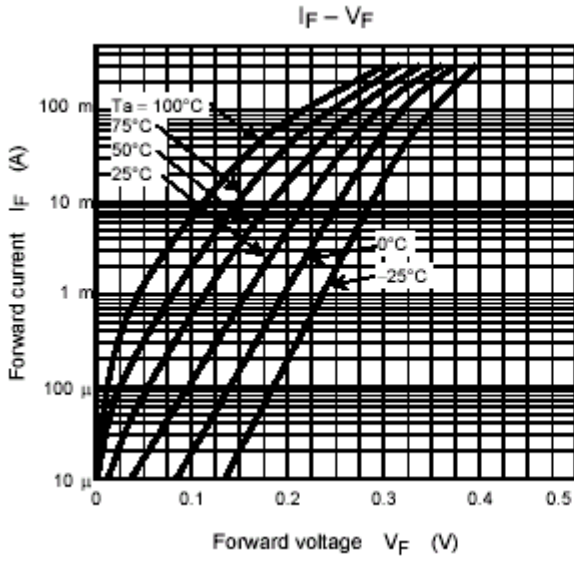


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SEMTECH ELECTRONICS LTD.

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



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Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-159-04-NC-EN

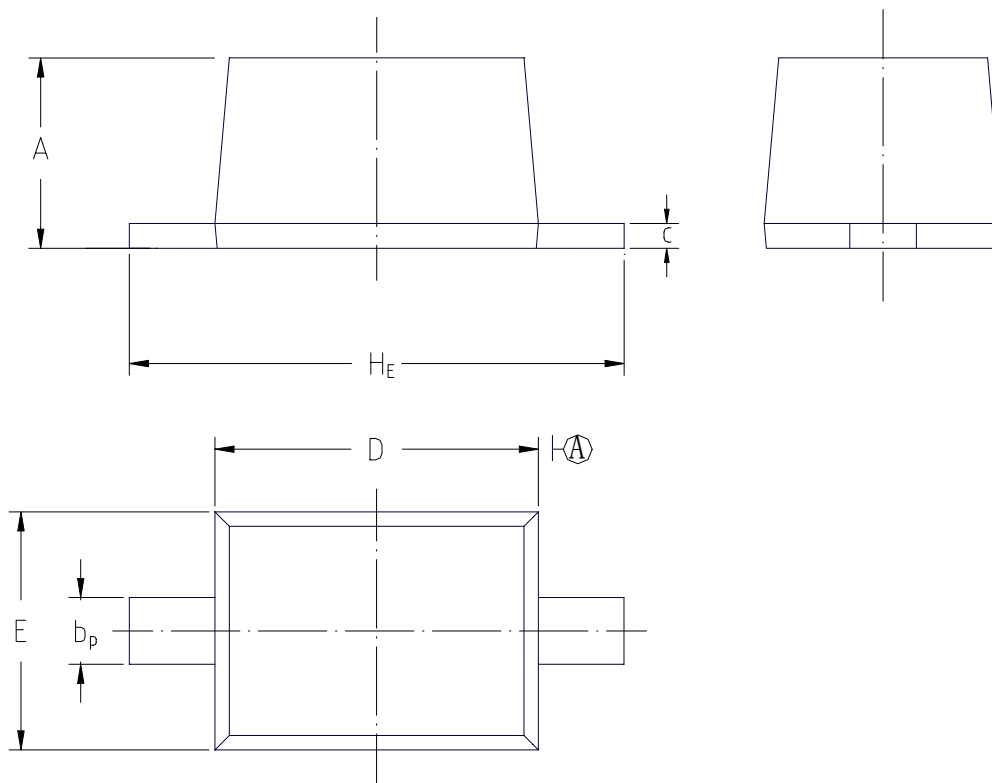
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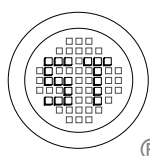
PACKAGE OUTLINE

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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