

1SS314

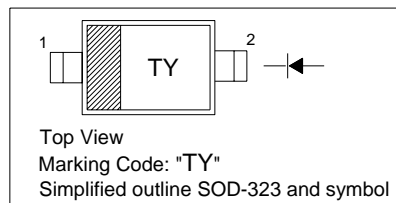
SILICON EPITAXIAL PLANAR DIODE

FEATURES

- Small package
- Small total capacitance: $C_T = 1.2\text{pF}(\text{max})$
- Low series resistance: $r_s = 0.5\Omega$ (typ.)

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



APPLICATIONS

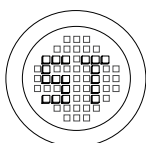
- VHF Tuner Band Switch Applications

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

Characteristics	Symbol	Limits	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	T_J	125	?
Storage temperature range	T_{stg}	-55 ... +125	?

Electrical Characteristics ($T_a = 25\text{ }^\circ\text{C}$)

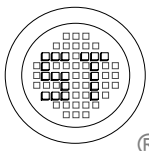
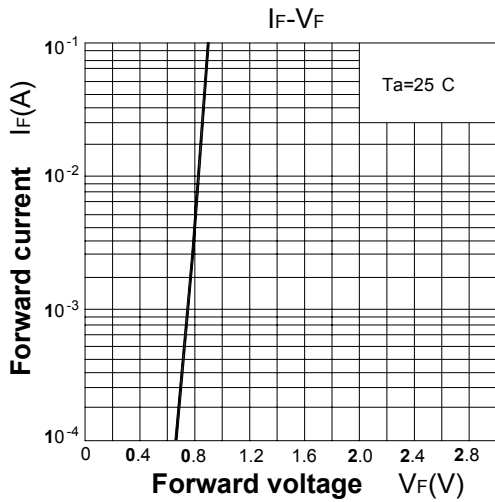
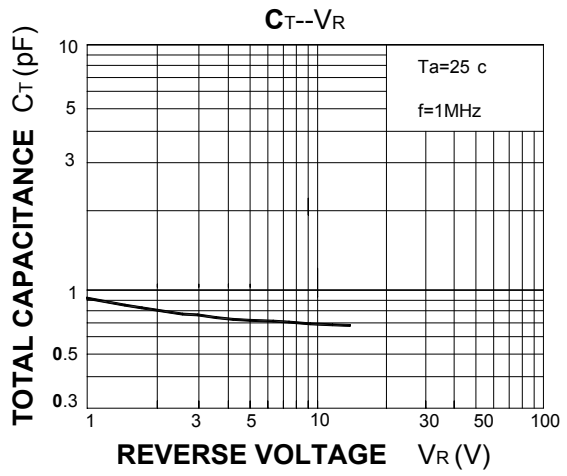
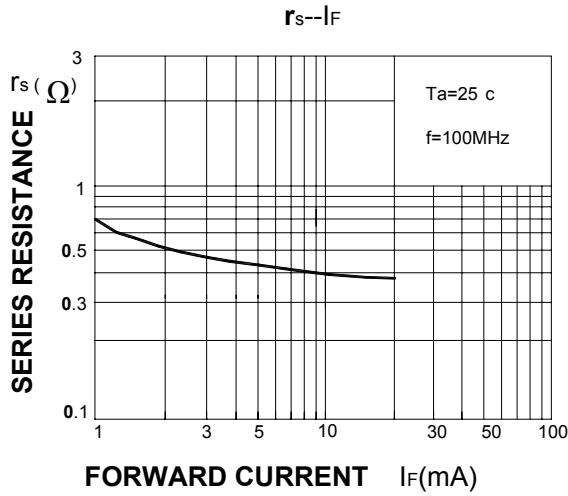
Characteristics	Symbol	Min	Typ	Max	Unit	Test Conditions
Forward voltage	V_F	-	-	0.85	V	$I_F = 2\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R = 15\text{V}$
Reverse voltage	V_R	30	-	-	V	$I_R = 1\mu\text{A}$
Total capacitance	C_T	-	0.7	1.2	pF	$V_R = 6\text{V}, f = 1\text{MHz}$
Series resistance	R_S	-	0.5	0.9	Ω	$I_F = 2\text{mA}, f = 100\text{MHz}$



®

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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



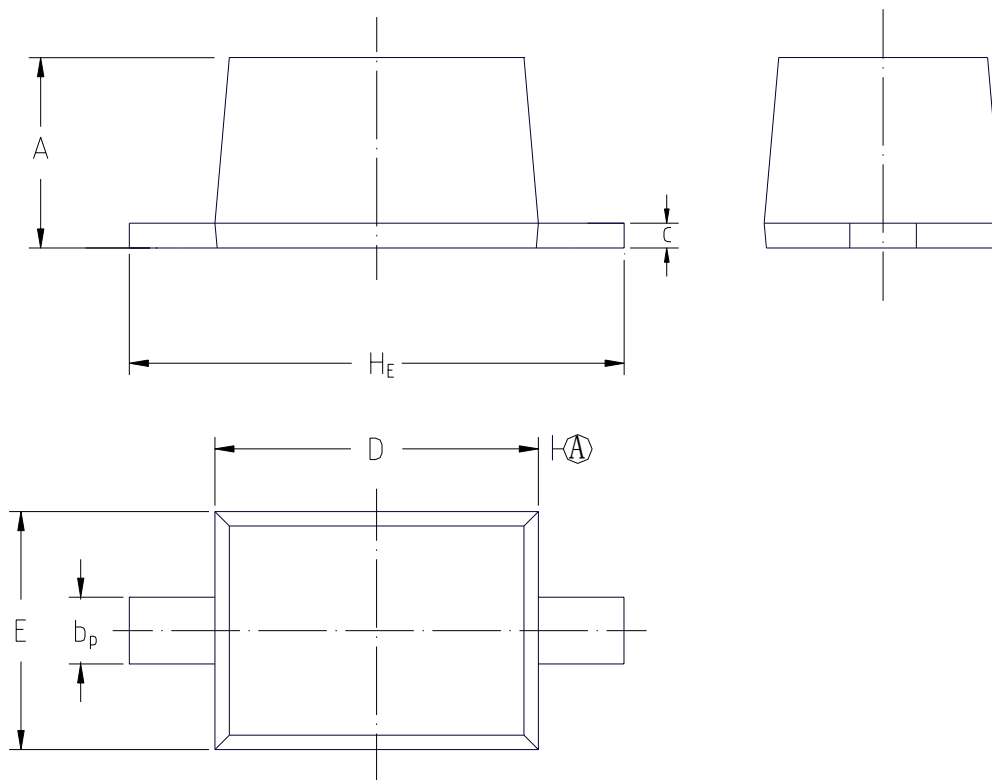
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Certificate No. 550-1559-04-002-04

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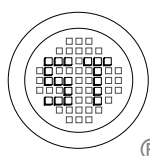
PACKAGE OUTLINE

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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