

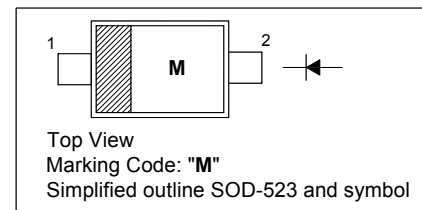
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SILICON EPITAXIAL PLANAR DIODE

for VHF tuner band switch applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

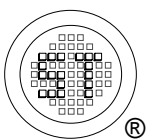


Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	100	mA
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 2\text{ mA}$	V_F	-	0.85	V
Reverse Current at $V_R = 15\text{ V}$	I_R	-	0.1	μA
Reverse Voltage at $I_R = 1\text{ }\mu\text{A}$	V_R	30	-	V
Total Capacitance at $V_R = 6\text{ V}$, $f = 1\text{ MHz}$	C_T	-	1.2	pF
Series Resistance at $I_F = 2\text{ mA}$, $f = 100\text{ MHz}$	r_s	-	0.9	Ω



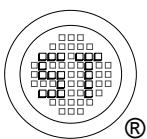
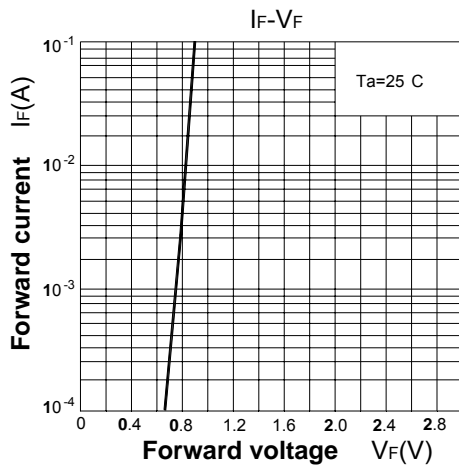
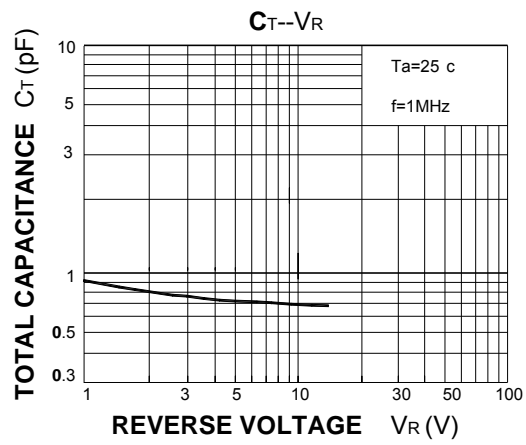
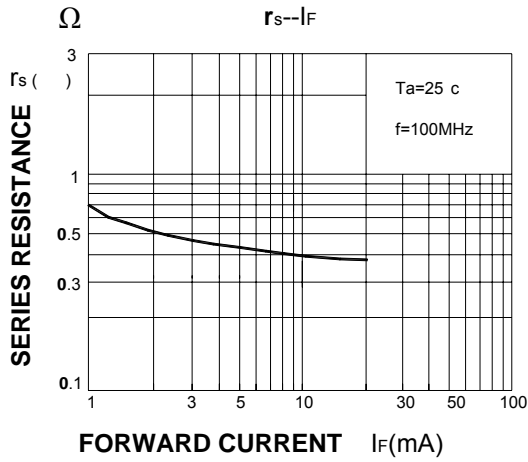
SEMTECH ELECTRONICS LTD.

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



Dated : 23/11/2006

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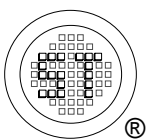
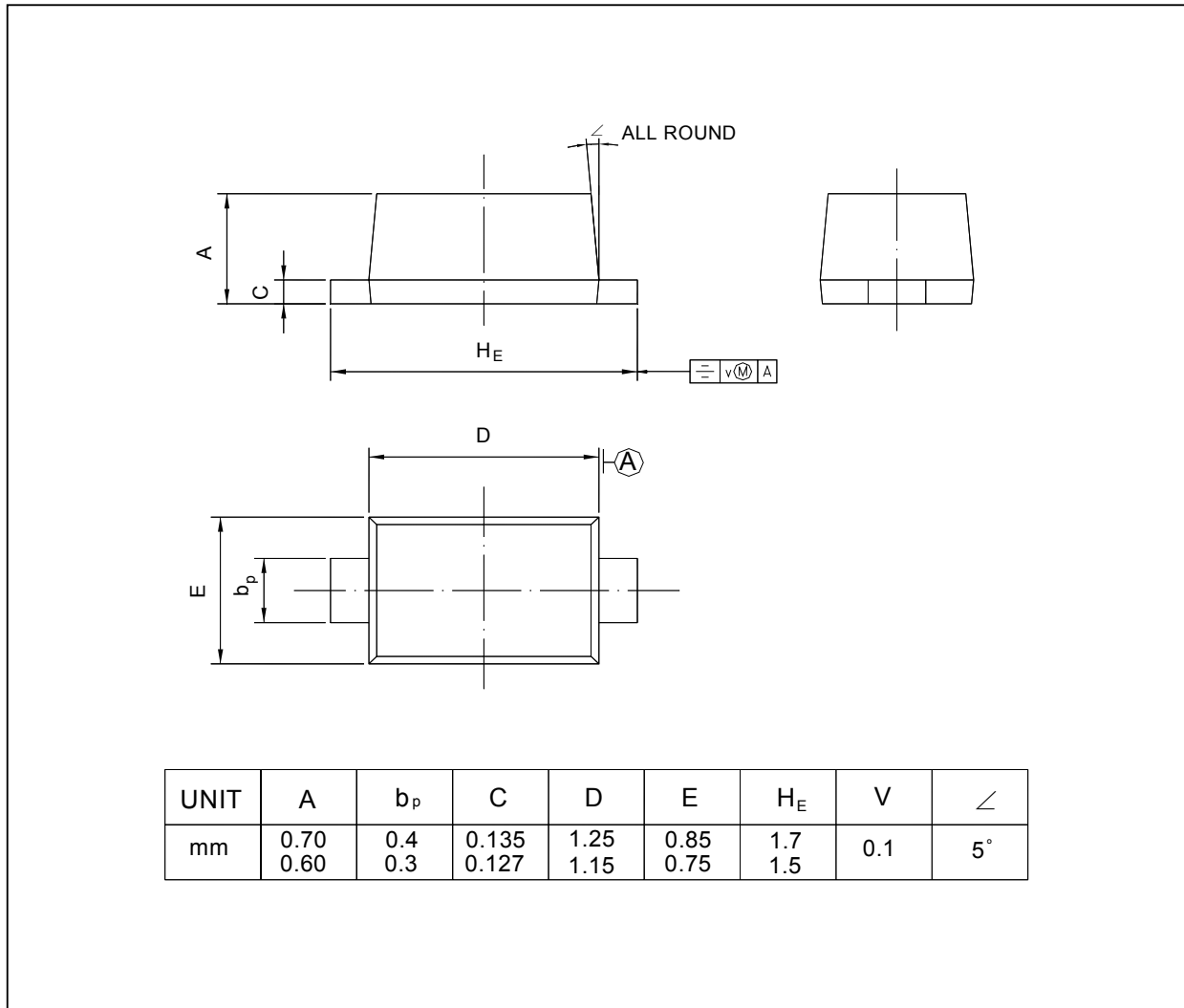
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



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