

ESD6V8WT

SILICON EPITAXIAL PLANAR DIODE

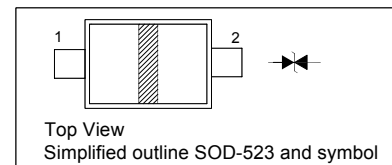
ESD protection diode

Features

- Ultra small mold type
- Bi-direction high reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

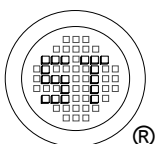


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 10 \times 1000 \mu\text{s}$)	P_{PK}	10	W
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$
Operation Temperature Range	T_{opr}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Zener Voltage at $I_Z = 1 \text{ mA}$	V_Z	5.5	8	V
Reverse Current at $V_R = 3.5 \text{ V}$	I_R	-	0.01	μA
Capacitance between Terminals at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	30	pF
ESD Voltage Capability (Contact Discharge Mode) at Discharge Capacitance / Resistance: 150 pF / 330 Ω	-	-	15	KV
ESD Voltage Capability (Air Discharge Mode) at Discharge Capacitance / Resistance: 150 pF / 330 Ω	-	-	25	KV



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company
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ISO/TS 16949 : 2002
Certificate No. 05103

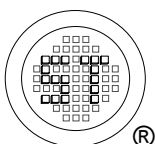
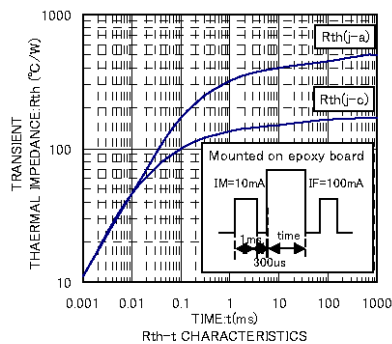
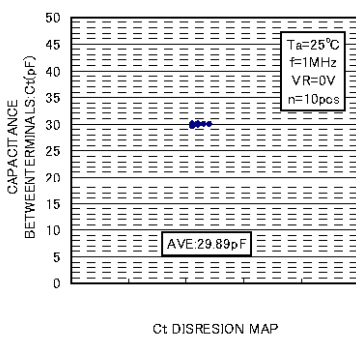
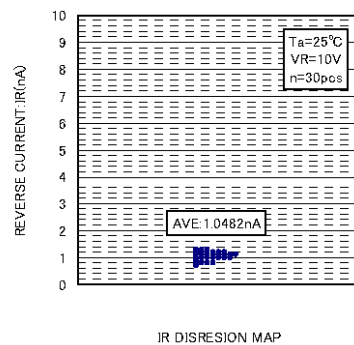
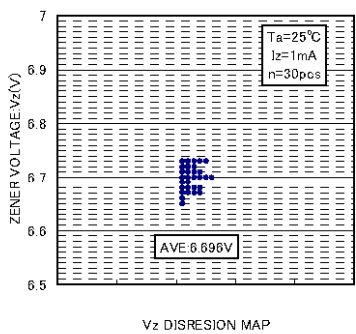
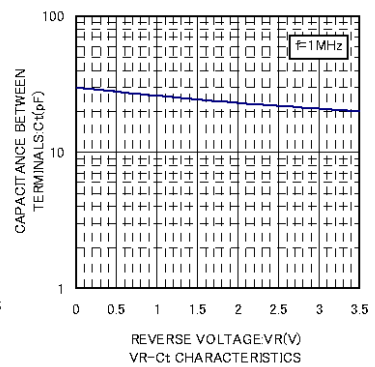
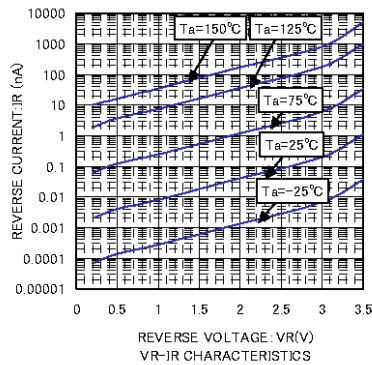
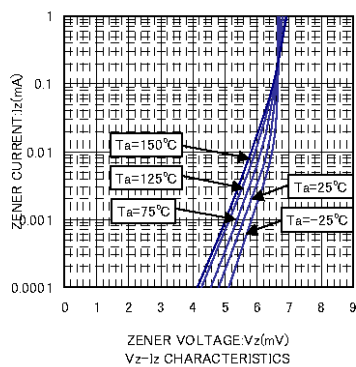


ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 14/03/2007



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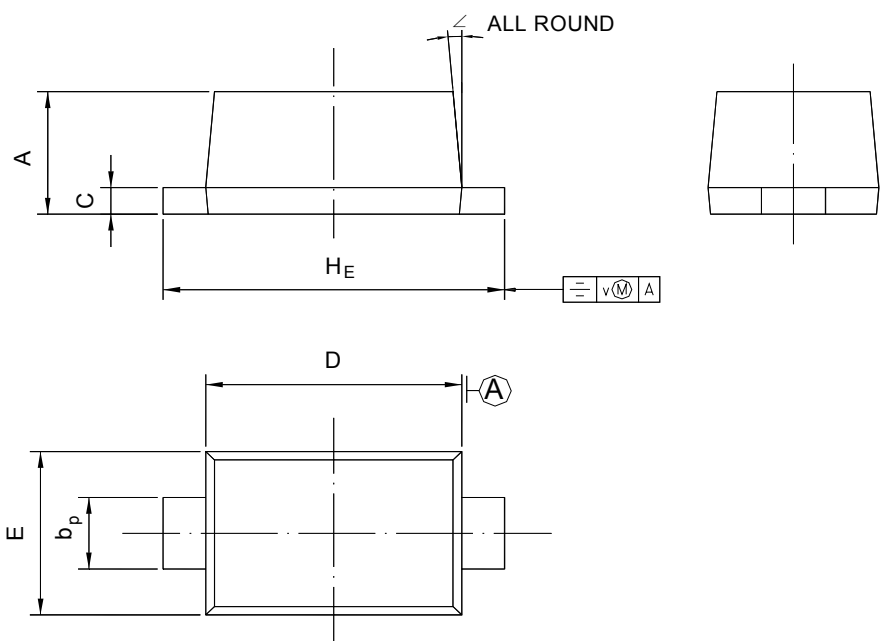
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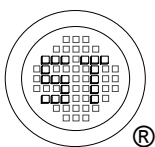
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.127	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°



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