

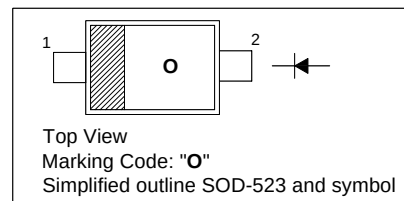
1SS388

SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

for high speed switching application

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

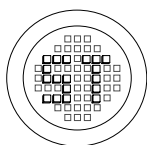


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Average Forward Current	I_O	100	mA
Maximum (Peak) Forward Current	I_{FM}	300	mA
Surge Current (10 ms)	I_{FSM}	1	A
Power Dissipation	P_{tot}	150	mW
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Operating Temperature Range	T_{opr}	- 40 to + 100	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 55 to + 125	$^{\circ}\text{C}$

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

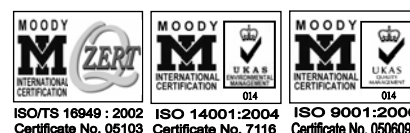
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 50\text{ mA}$	V_F	0.6	V
Reverse Current at $V_R = 10\text{ V}$	I_R	5	μA
Total Capacitance at $f = 1\text{ MHz}$	C_T	25	pF



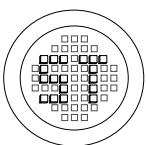
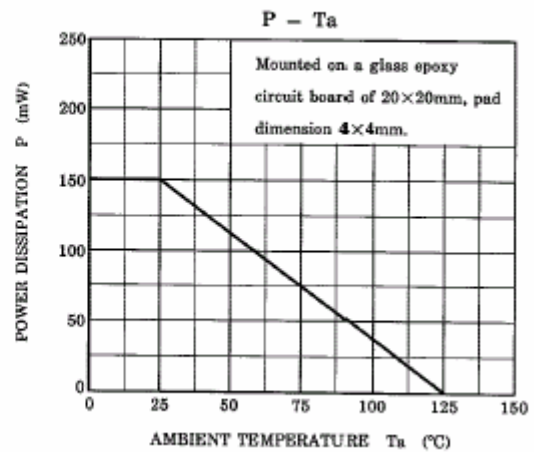
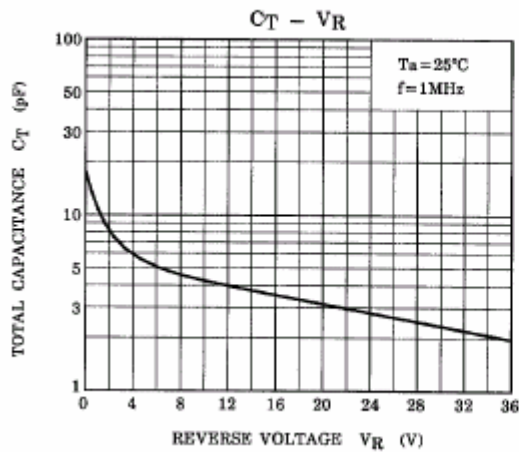
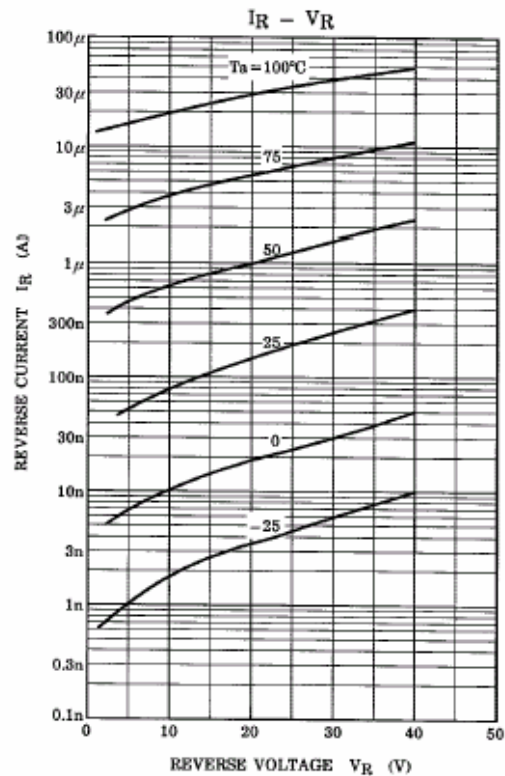
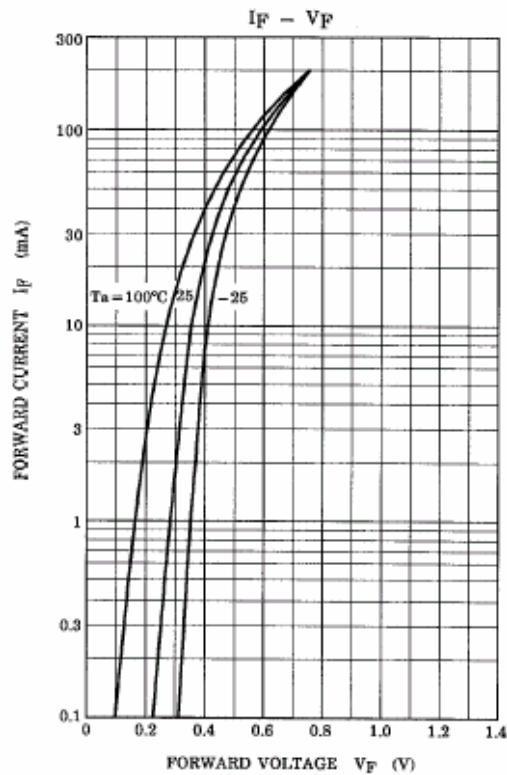
®

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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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



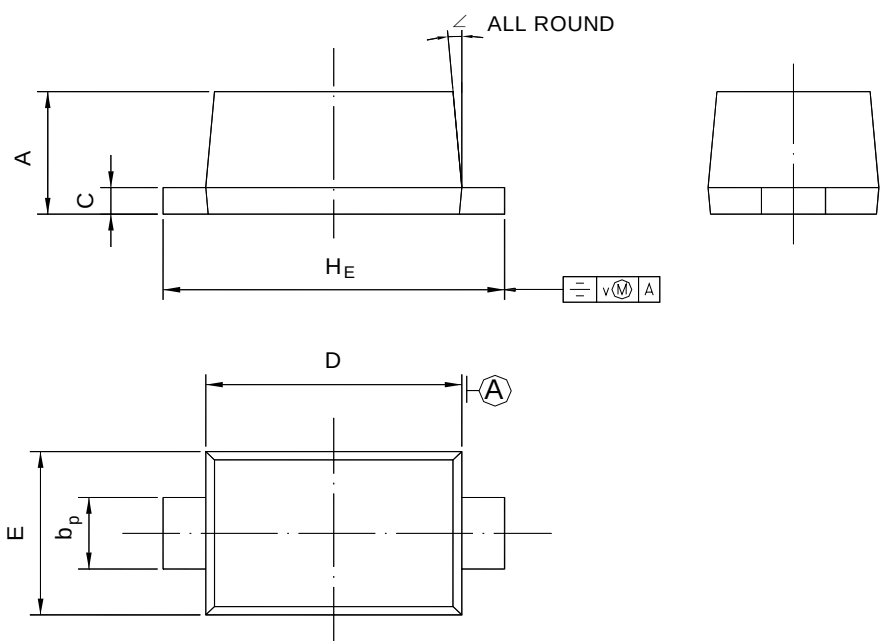
ISO 9001:2000
Certificate No. 0506098

Dated : 23/11/2006

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°

