



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

SB520WT

SCHOTTKY BARRIER DIODE

Features

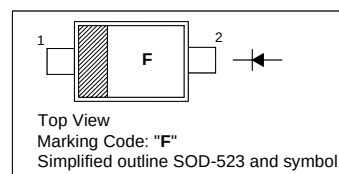
- Ultra small SMD package
- Very low forward voltage

Applications

- Ultra high speed switching
- Voltage clamping
- Low current rectification

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

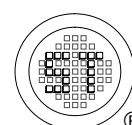


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
Continuous Forward Current	I_F	500	mA
Repetitive Peak Forward Current (at $t_p = 1$ ms)	I_{FRM}	3.5	A
Non-Repetitive Peak Forward Surge Current ($t = 8$ ms square wave)	I_{FSM}	6	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1$ mA at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 500$ mA	V_F	180 240 290 380 650	mV
Reverse Current at $V_R = 10$ V	I_R	30	μA
Diode Capacitance at $V_R = 1$ V, $f = 1$ MHz	C_d	30	pF



Dated : 23/11/2006



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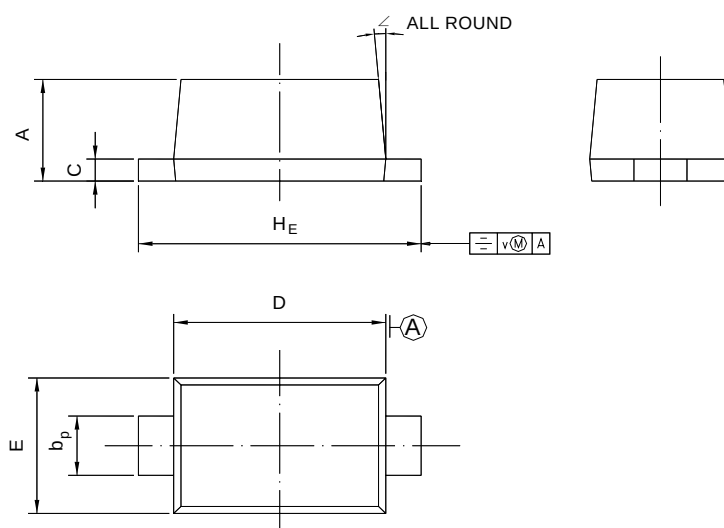
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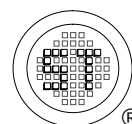
PACKAGE OUTLINE

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 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°



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