

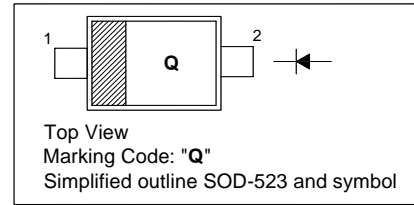
# 1SS413

## SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

for high speed switching application

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

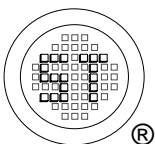


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	25	V
Reverse Voltage	$V_R$	20	V
Peak Forward Current	$I_{FM}$	100	mA
Average Forward Current	$I_O$	50	mA
Surge Current (10 ms)	$I_{FSM}$	1	A
Power Dissipation	$P_{tot}$	100	mW
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature	$T_s$	- 55 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 50\text{ mA}$	$V_F$	-	0.55	V
Reverse Current at $V_R = 20\text{ V}$	$I_R$	-	0.5	$\mu\text{A}$
Total Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	3.9	-	pF



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ISO/TS 16949 : 2002 Certificate No. 05103  
ISO 14001:2004 Certificate No. 7116  
ISO 9001:2000 Certificate No. 0506098

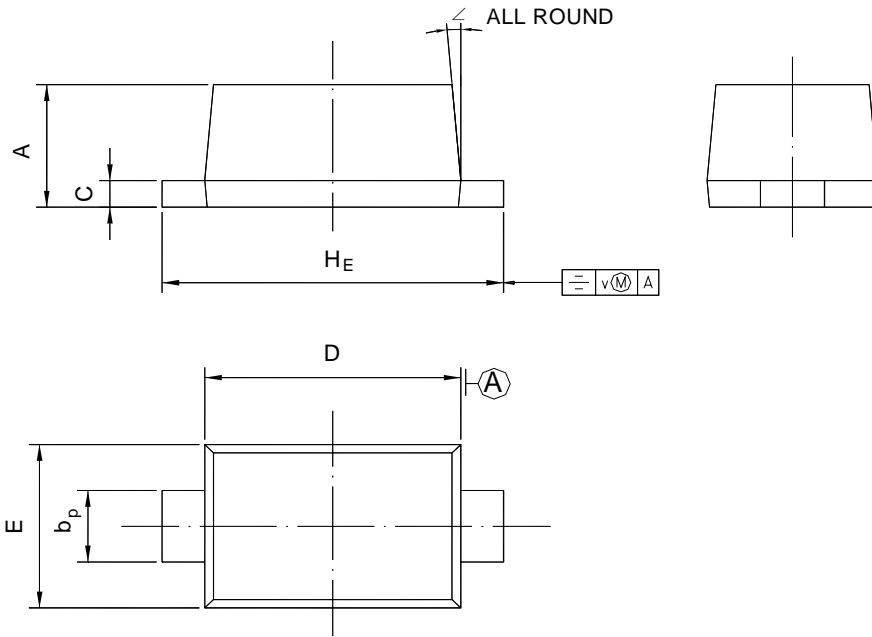
Dated : 23/11/2006

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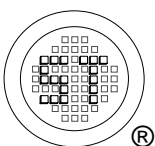
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	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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