

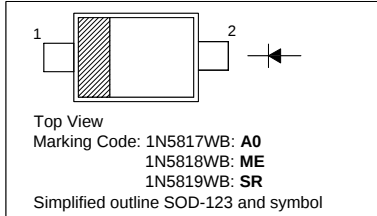
1N5817WB-1N5819WB

[查询"1N5817WB"供应商](#)

1 A SURFACE MOUNT SCHOTTKY BARRIER DIODE

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

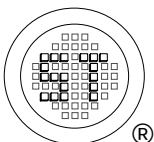


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
1N5817WB		30	
1N5818WB		40	
Average Forward Rectified Current	I_O	1	A
Non-Repetitive Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I_{FSM}	25	A
Power Dissipation	P_{tot}	450	mW
Operating Temperature Range	T_j	- 55 to + 150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^{\circ}\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\text{ mA}$	V_{BR}	20	-	V
1N5817WB		30	-	
1N5818WB		40	-	
Reverse Voltage Leakage Current	I_R	-	1	mA
at $V_R = 20\text{ V}$		-	1	
at $V_R = 30\text{ V}$		-	1	
at $V_R = 40\text{ V}$		-	0.05	
at $V_R = 4\text{ V}$		-	0.075	
Forward Voltage	V_F	-	0.45	V
at $I_F = 0.1\text{ A}$		-	0.45	
at $I_F = 1\text{ A}$		-	0.55	
1N5819WB		-	0.6	
at $I_F = 3\text{ A}$		-	0.75	
1N5817WB		-	0.875	
1N5818WB		-	0.9	
Diode Capacitance at $V_R = 4\text{ V}$, $f = 1\text{ MHz}$	C_D	-	120	pF



SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



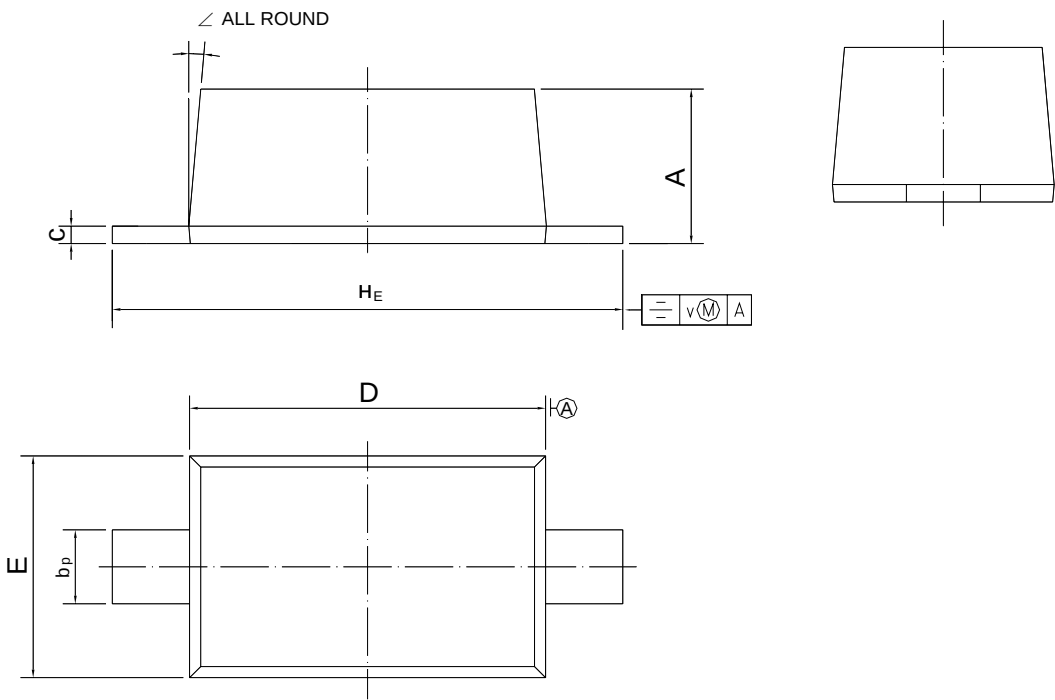
ISO 9001:2000
Certificate No. 0506098

Dated : 20/12/2006

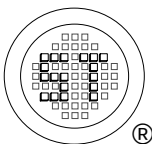
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	b _p	c	D	E	H _E	v	∠
mm	1.15 1.05	0.6 0.5	0.135 0.127	2.7 2.6	1.65 1.55	3.9 3.7	0.2	5°



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