

1SS06AWT

SCHOTTKY BARRIER DIODE

Features

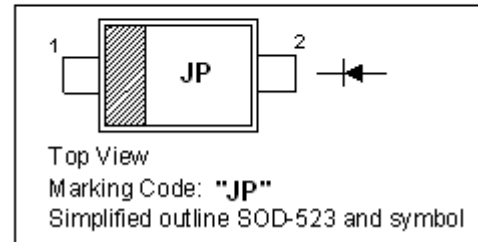
- Very low forward voltage
- Very low reverse current
- Guard ring protected
- Ultra small SMD package.

Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits
- Blocking diodes
- Low power consumption applications.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_j = 25°)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	40	V
Continuous Forward Current	I _F	200	mA
Repetitive Peak Forward Current t _p ≤ 1s, δ ≤ 0.5	I _{FRM}	300	mA
Non-repetitive Peak Forward Current t = 8.3ms half sinewave (JEDEC method)	I _{FSM}	1	A
Junction Temperature	T _J	150	°C
Storage Temperature	T _s	-65 to +150	°C
Operating Ambient Temperature	T _{amb}	-65 to +150	°C

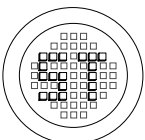
Characteristics at T_j = 25°

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward Voltage	I _F = 0.1mA	V _F	-	190	220	mV
	I _F = 1mA	V _F	-	250	290	mV
	I _F = 10mA	V _F	-	320	360	mV
	I _F = 100mA	V _F	-	440	500	mV
	I _F = 200mA	V _F	-	520	600	mV
Reverse Current (Note 1)	V _R = 25V	I _R	-	-	0.5	μA
Diode Capacitance	V _R = 1V, f = 1MHz	C _D	-	-	20	pF

Note 1: Pulse test: pulse width=300us; δ = 0.02.

Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance from Junction to Ambient	R _{th j-a}	450	K/W

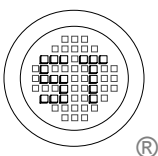
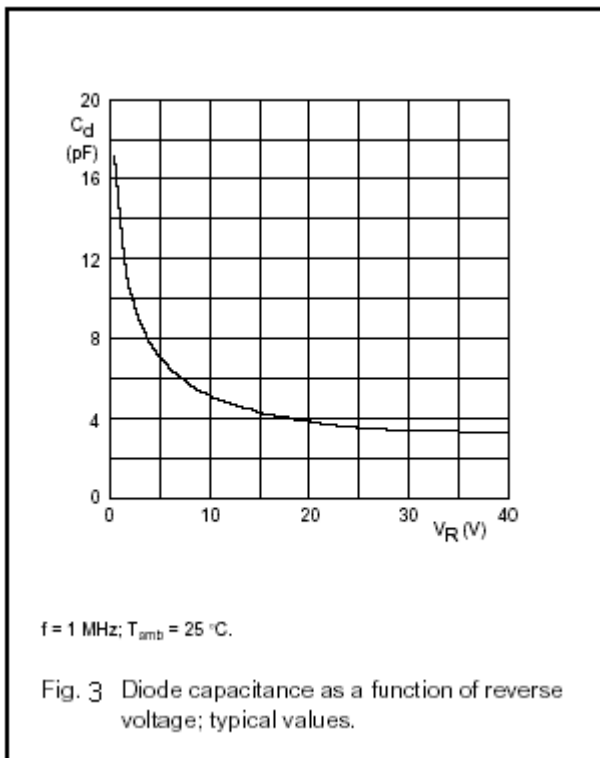
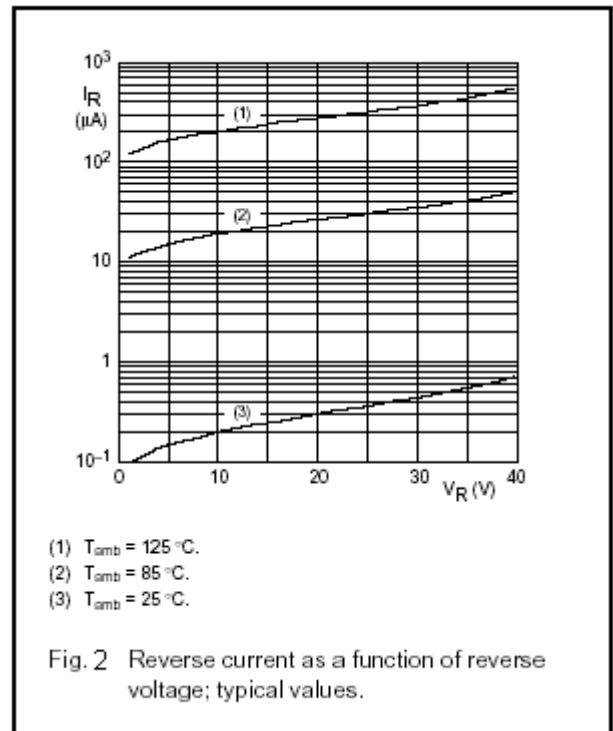
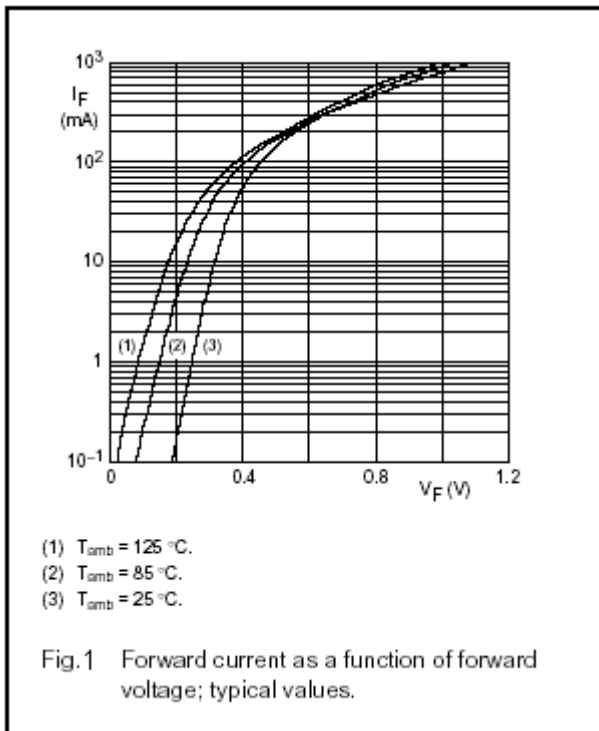


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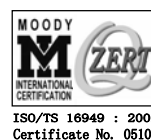
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SEMTECH ELECTRONICS LTD.
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 Certificate No. 05103



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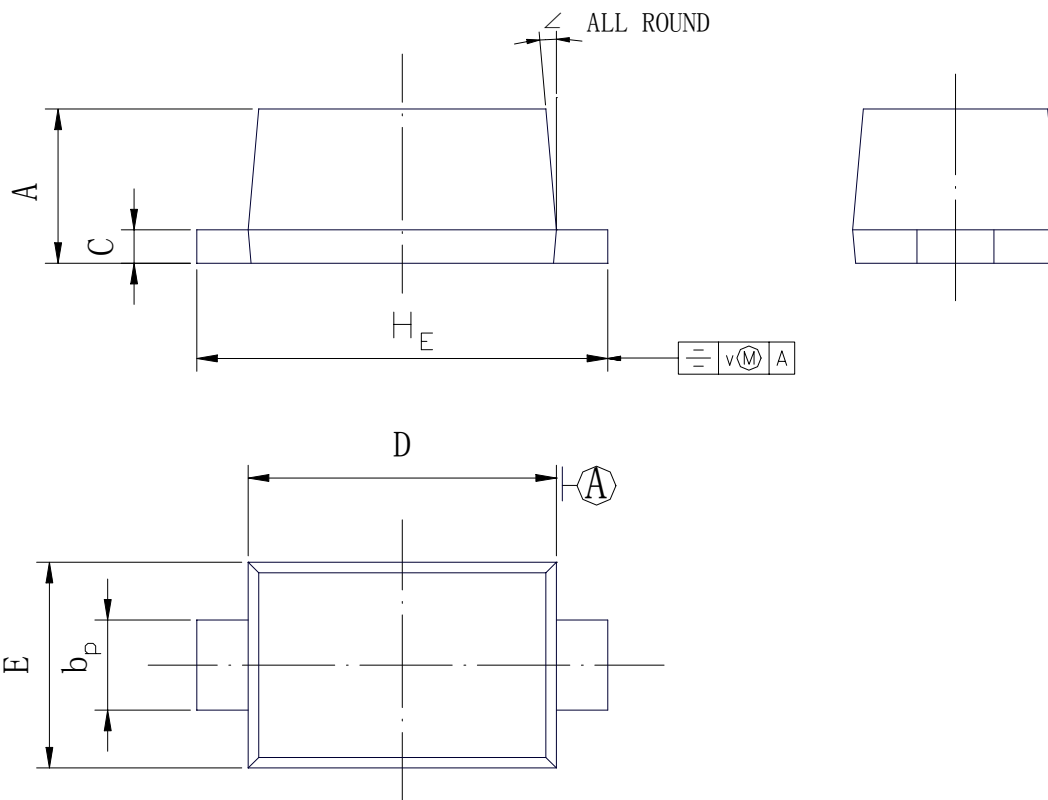
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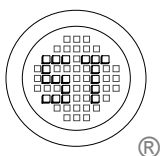
PACKAGE OUTLINE

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	1.65 1.55	0.1	5°



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