



Schottky Barrier Diode

Reverse Voltage - 30 Volts
Forward Current - 200 Milliampere

Features

- Low forward voltage
- Guard ring protected
- Small plastic SMD SOD-323 package

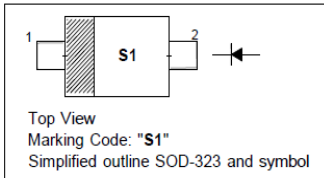
Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits

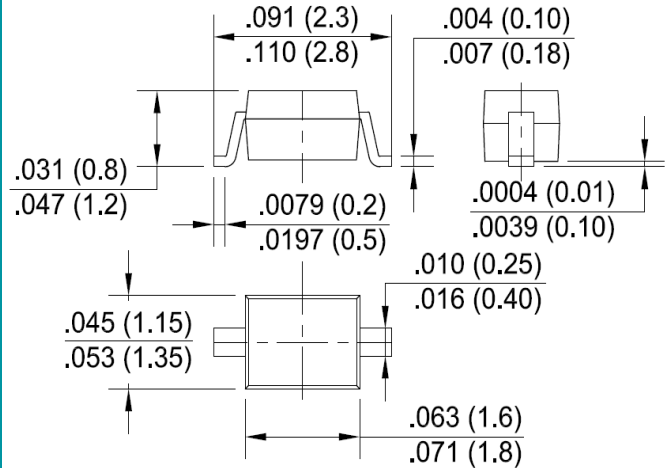
Note: Products with logo or are made by HY Electronic (Cayman) Limited.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



SOD-323



Absolute Maximum Ratings (T_a=25°C)

Parameter	Symbol	BAT54WS	Unit
Reverse Voltage	V _R	30	V
Forward Current	I _F	200	mA
Repetitive Peak Forward Current	I _{FRM}	300	mA
Peak Forward Surge Current (t _p = 10 ms)	I _{FSM}	600	mA
Power Dissipation	P _D	230	mW
Thermal Resistance from Junction Ambient	R _{θJA}	500	K/W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-65 to +150	°C
Max.Forward Voltage @ I _F = 0.1 mA	V _F	0.24	V
@ I _F = 1mA		0.32	
@ I _F = 10 mA		0.4	
@ I _F = 30 mA		0.5	
@ I _F = 100 mA		0.8	
Max.Peak Reverse Current @V _R = 25 V	I _R	2	μA
Max.Total Capacitance @V _R = 1 V, f = 1 MHz	C _T	10	pF
Max.Reverse Recovery Time @ at I _F = 10 mA, V _R = 6 V, I _R = 10 mA, R _L = 100 Ω	t _{rr}	6	ns

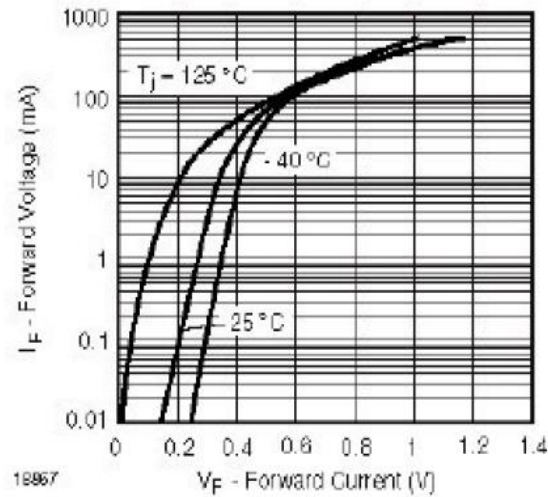


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

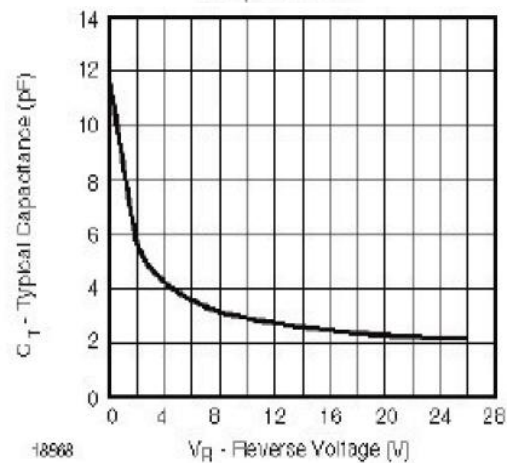


Figure 2. Typical Capacitance C_T vs. Reverse Applied Voltage V_R

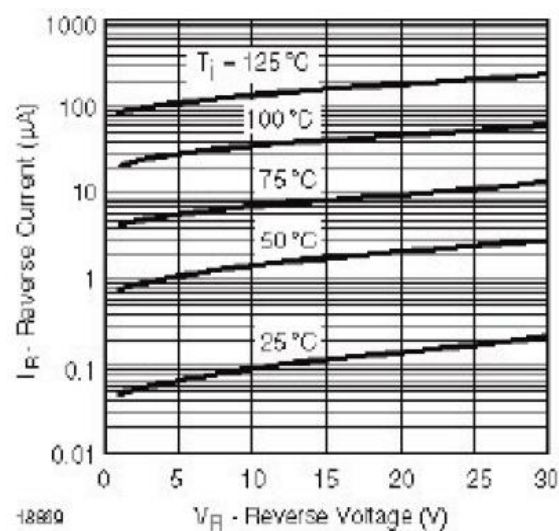


Figure 3. Typical Variation of Reverse Current at Various Temperatures



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