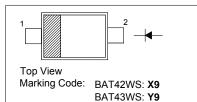
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage
- Fast Switching
- Ultra-Small Surface Mount Package

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Simplified outline SOD-323 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit	
Repetitive Peak Reverse Voltage	V_{RRM}	30	V	
Reverse Voltage	V_R	30	V	
Average Rectified Output Current	Io	100	mA	
Forward Continuous Current	I _{FM}	200	mA	
Repetitive Peak Forward Current at t < 1 s	I _{FRM}	500	mA	
Non-repetitive Peak Forward Surge Current at t < 10 ms	I _{FSM}	2	Α	
Power Dissipation	P _{tot} 200		mW	
Thermal Resistance, Junction to Ambient	$R_{ hetaJA}$	625	°C/W	
Junction Temperature	T _j	- 55 to + 125	°C	
Storage Temperature Range	T _S	- 55 to + 125	°C	

Characteristics at T_a = 25 °C

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA		$V_{(BR)R}$	30	-	V
Reverse Current at V _R = 25 V		I _R	-	500	nA
Forward Voltage at I_F = 200 mA at I_F = 10 mA at I_F = 50 mA at I_F = 2 mA at I_F = 15 mA	BAT42WS BAT42WS BAT43WS BAT43WS	V _F	- - - 0.26	1 0.4 0.65 0.33 0.45	V
Total Capacitance at $V_R = 1 \text{ V}$, $f = 1 \text{ MHz}$		C_T	-	10	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$, $I_{RR} = 0.1 \text{ X } I_R$, $R_L = 100 \Omega$		t _{rr}	-	5	ns

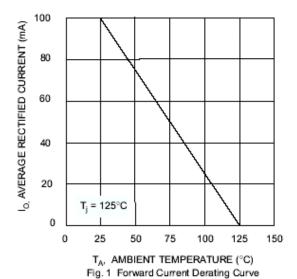


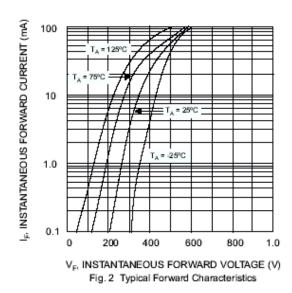


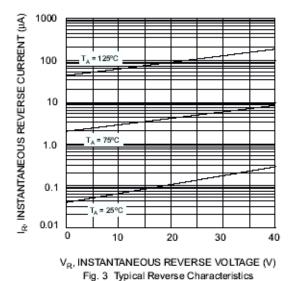




SEMTECH ELECTRONICS LTD.











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



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

