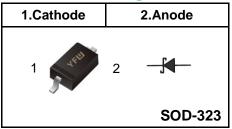


■ Surface Mount Schottky Barrier Diode

Features

- Low Forward Voltage Drop
- Fast Switching
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish





Marking Code			
BAT54WS	L9		

Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	Vrwm	30	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	21	V
Average Rectified Forward Current	lo	100	mA
Forward Continuous Current (Note 1)	lf	200	mA
Repetitive Peak Forward Current (Note 1)	I FRM	300	mA
Forward Surge Current (Note 1) @ t < 1.0s	I FSM	600	mA
Power Dissipation (Note 1)	Pd	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R ⊕ JA	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to 125	$^{\circ}$ C

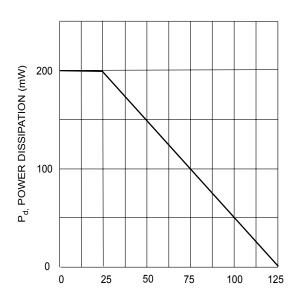
Note 1.Part mounted on FR-4 PC board with recommended pad layout.

Electrical Characteristics Ta = 25°C

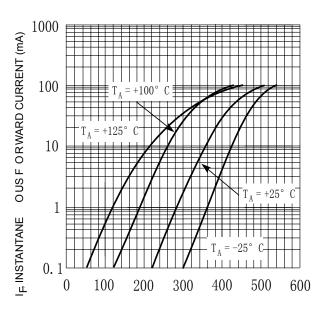
Parameter	Symbol	Test conditons	Min	Тур	Max	Unit
Reverse Breakdown Voltage	V(BR)R	IR=100 µ A	30			V
		IF = 0.1mA			240	
Forward Voltage	V _F	I _F = 1mA			320	
		IF = 10mA			400	mV
		IF = 30mA			500	
		IF = 100mA			1000	
Reverse Leakage	I R	V _R =25V			2.0	μ Α
Total Capacitance	Ст	VR=0V, f=1.0MHz			10	pF
Reverse Recover Time	Trr	IF = 10mA through IR = 10mA to IR = 1.0mA, RL = 100 Ω			5.0	ns



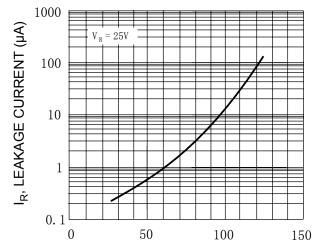
Typical Characteristics



T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Power Derating Curve



T_j, INSTANTANEOUS FORWARD VOLTAGE (mV) Fig. 2, Typical Forward Characteristics



T_j, JUNCTION TEMPERATURE (°C) Fig. 3, Typical Reverse Characteristics

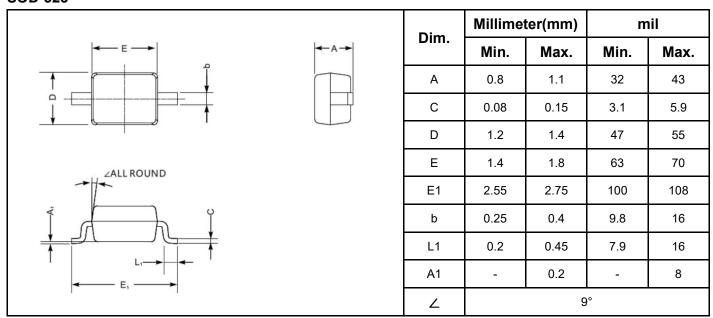


Ordering information

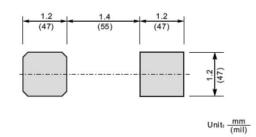
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323



The recommended mounting pad size





Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website https://www.yfwdiode.com, or consult YFW sales office for further assistance.

Rev:BDJ