Plastic-Encapsulate Schottky Barrier Diode

Features

- High Current Capability
- Low Forward Voltage Drop

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

BAT46WS **S9**

Maximum Ratings & Thermal Characteristics

(Ratings at 25 ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Forward continuous current	I_F	150	mA
Repetitive peak forward current (Note1)@tp<1.0s, Duty cycle<50%	I_{FRM}	350	mA
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	750	mA
Typical thermal resistance	$R_{\theta JA}$	500	/W
Power Dissipation	P_D	200	mW
Junction temperature	T_j	125	
Storage temperature range	T_{STG}	-55-+150	

Electrical Characteristics (Ratings at 25 ambient temperature unless otherwise specified).

Parameter	Symbols	Test Condition	Limits			Unit
			Min	Typ	Max	
Maximum forward voltage (Note 2)	V_{F1}	IF = 0.1mA			250	mV
	V_{F2}	IF = 10mA			450	mV
	V_{F3}	IF = 250mA			1000	mV

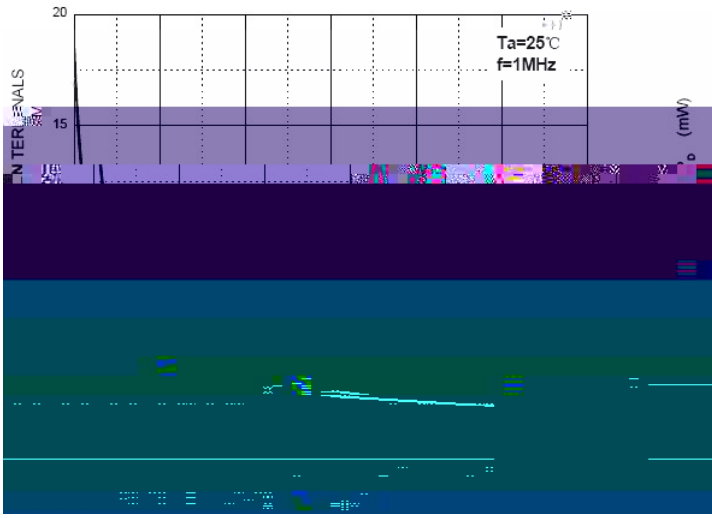
Typical Characteristics

Forward Characteristics

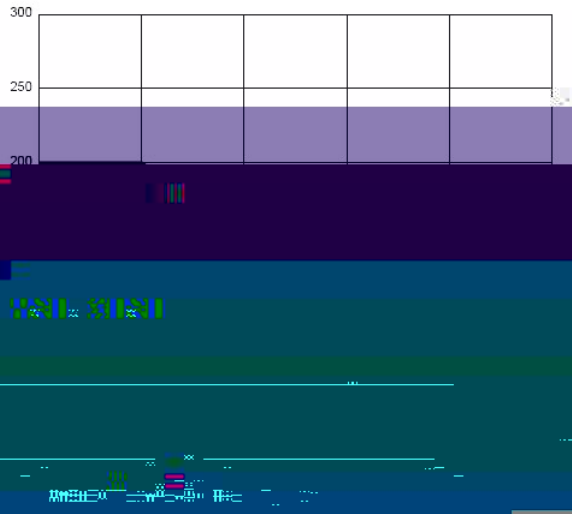


Reverse Characteristics

Capacitance Characteristics



Power Derating Curve



Ordering information

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

Package Dimensions

SOD-323

	Dim.	Millimeter(mm)		mil	
		Min.	Max.	Min.	Max.

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.