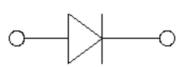






Schottky Barrier Rectifier





Features

Moisture sensitivity level 1

• Reverse voltage: 100V

• Average forward current : 200mA

Application

High frequency and low voltage rectifier

Mechanical data

• Package: SOD-323

• **Terminals**: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			41
Repetitive peak reverse voltage	V_{RRM}	V	100
Forward current	I _F	mA	200
Non-repetitive surge peak forward current @ t=1ms square wave	I _{FSM}	Α	1
Power dissipation	P _D	mW	150
Junction temperature	TJ	°C	-55 to +150
Storage temperature	T _{STG}	°C	-55 to +150



BAT41WS

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Тур	Max
Reverse voltage V _R		V	I _R =100uA	100		
Convert valtage	V_{F1}	V	I _F =1mA			0.45
Forward voltage	V_{F2}	V	I _F =200mA			1
Reverse leakage current	everse leakage current I_R uA V_R =50V				0.1	
Junction capacitance Cj		pF	V _R =1V, f=1MHz			10
Reverse recovery time				4		

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	RθJ-A ⁽¹⁾	°C/W	667
Thermal resistance, junction-to-case	RθJ-C ⁽¹⁾	°C/W	533

Note:

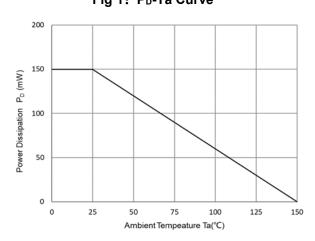
(1) Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 8mm*9mm copper pad areas





■Characteristics

Fig 1: P_D-Ta Curve



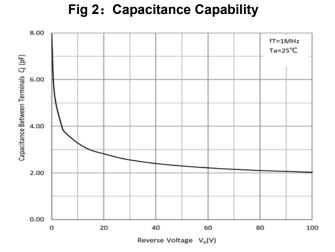


Fig 3: Typical Forward Characteristics

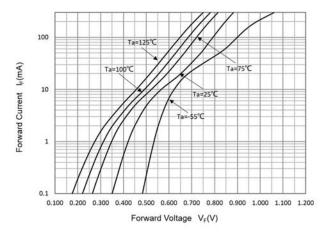
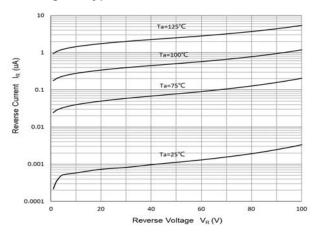


Fig 4: Typical Reverse Characteristics





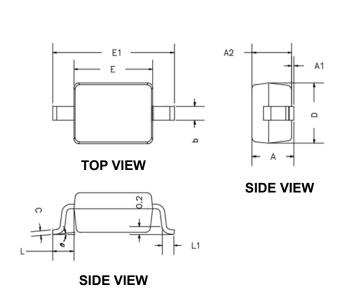
BAT41WS



■Ordering Information

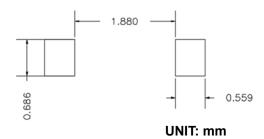
Preferred	P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
BAT41W	/S	F2	Approximate 0.0048	3000	30000	120000	7" reel
BAT41W	/S	F3	Approximate 0.0048	10000	1	210000	13" reel

■ Outline Dimensions



DIMENSIONS					
DIM	INC	HES	ММ		
	MIN	MAX	MN	MAX	
A		0.0393		1.0000	
A1	0.0000	0.0039	0.0000	0.1000	
SA	0.0314	0.0354	0.8000	0.9000	
lo	0.0098	0.0157	0.2500	0.4000	
С	0.0031	0.0059	0.0800	0.1500	
D	0.0472	0.0551	1,2000	1.4000	
Ε	0.0629	0.0709	1,6000	1,8000	
El	0.0984	0.1063	2.5000	2.7000	
L	0.018	7TYP	0.475TYP		
L1	0.0098	0.0157	0.250	0.400	
ө	0*	8*	0*	8*	

■ Suggested Pad Layout





BAT41WS



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology 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), Yangjie 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 http:// www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.