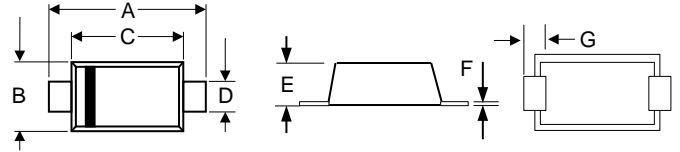


Features

- * Low Forward Voltage
- * Fast Switching
- * Ultra-Small Surface Mount Package
- * Marking Code: BAT42WS: X9
- * Marking Code: BAT43WS: Y9



RoHS
COMPLIANT



SOD-323F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.091	0.110	2.30	2.80
B	0.045	0.053	1.15	1.35
C	0.063	0.071	1.60	1.80
D	0.010	0.016	0.25	0.40
E	0.031	0.043	0.80	1.10
F	0.004	0.006	0.10	0.15
G	0.016	0.024	0.41	0.61

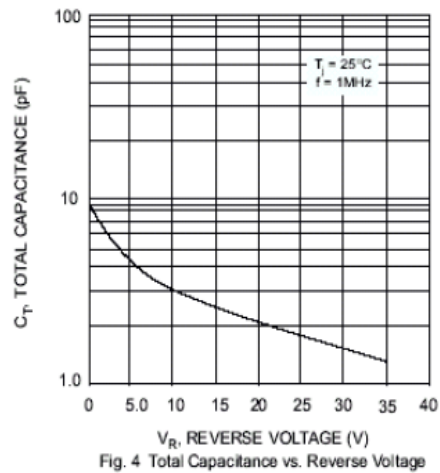
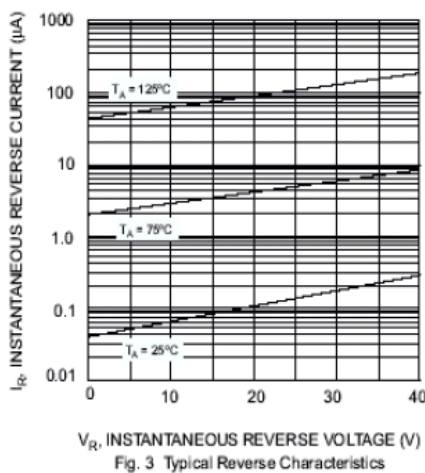
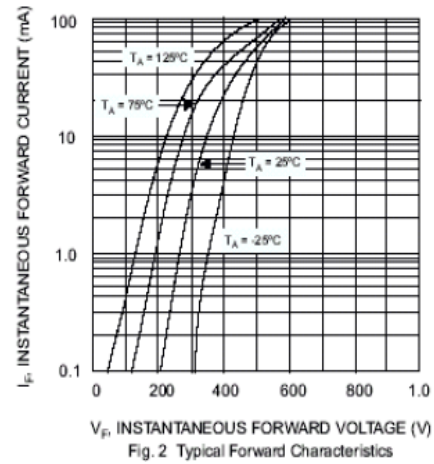
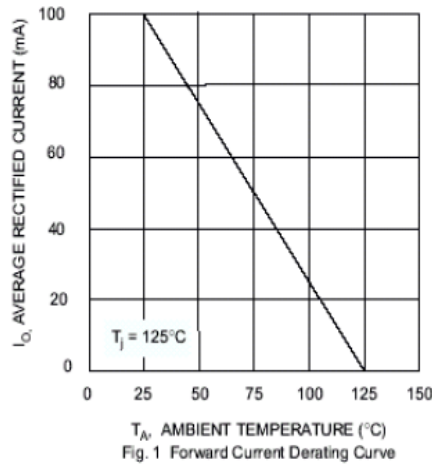
Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Reverse Voltage	V _R	30	V
Average Rectified Output Current	I _O	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	A
Power Dissipation	P _{tot}	200	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	625	°C/W
Junction Temperature	T _j	- 55 to + 125	°C
Storage Temperature Range	T _{Stg}	- 55 to + 125	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

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	V _F	-	1	V	
at I _F = 10 mA		BAT42WS	-		0.4
at I _F = 50 mA		BAT42WS	-		0.65
at I _F = 2 mA		BAT43WS	0.26		0.33
at I _F = 15 mA		BAT43WS	-		0.45
Total Capacitance at V _R = 1 V, f = 1 MHz	C _T	-	10	pF	
Reverse Recovery Time at I _F = I _R = 10 mA, I _{RR} = 0.1 X I _R , R _L = 100 Ω	t _{rr}	-	5	ns	

Ratings and Characteristic Curves





BAT42WS, BAT43WS

Surface Mount Schottky Barrier Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
BAT42WS, BAT43WS	SOD-323F	R30	3000pcs/Reel

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