

Small Signal Product 0.2W Surface Mount Flat Lead Fast Switching Schottky Barrier Diode

FEATURES

- Low forward voltage drop
- Surface mount device type
- Moisture sensitivity level 1
- RoHS compliant
- Clip bonding construction, good thermal capability





SOD-323F



MECHANICAL DATA

- Case: Flat lead SOD-323F small outline plastic package
- Matte tin (Sn) lead finish
- Band indicates cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	VALUE	UNIT		
Power Dissipation	P _D	200	mW		
Repetitive Peak Reverse Voltage	V _{RRM}	30	V		
Maximum DC Blocking Voltage	V _R	30	V		
Average Rectified Forward Current	I _{F(AV)}	200	mA		
Peak Forward Surge Current	I _{FSM}	4	А		
Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to +125	°C		

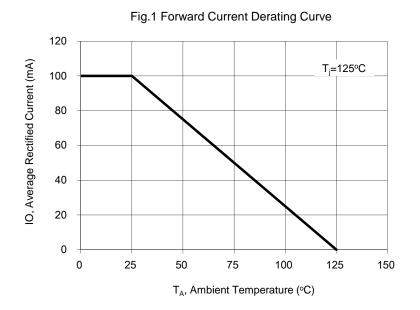
PA	SYMBOL	MIN	MAX	UNIT	
Breakdown Voltage	Ι _R =100μΑ	B _V 30			V
Forward Voltage	BAT42WS at I _F = 200 mA			1.0	
	BAT42WS at $I_F = 10 \text{ mA}$			0.4	
	BAT42WS at $I_F = 50 \text{ mA}$	N/	0.65		
	BAT43WS at $I_F = 200 \text{ mA}$	V _F		1.0	V
	BAT43WS at $I_F = 2 \text{ mA}$		0.26	0.33	
	BAT43WS at $I_F = 15 \text{ mA}$			0.45	
Reverse Leakage Current at $V_R = 25 V$		I _R		500.0	nA
Junction Capacitance V _R =1V, f=1.0MHz		CJ	7 (Тур.)	pF
Reverse Recovery Time	at $I_F = I_R = 10 \text{ mA}$, $I_{RR} = 1 \text{ mA}$, $R_L = 100 \Omega$	t _{rr}	5 (Тур.)	ns

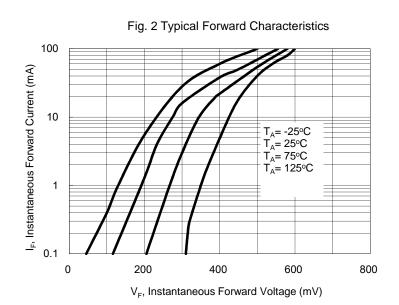


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RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







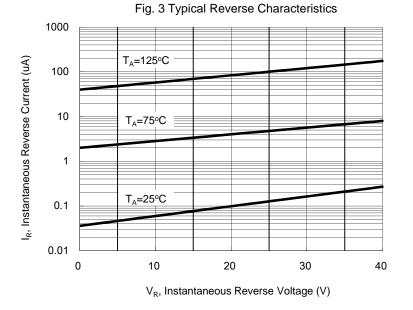
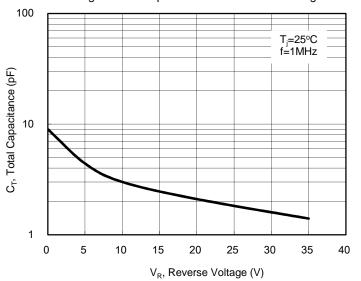


Fig. 4 Total Capacitance VS. Reverse Voltage





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ORDERING INFORMATION						
PART NO.	MANUFACTURE Code	PACKING CODE	GREEN Compound Code	PACKAGE	PACKING	MARKING
BAT42WS	(Note)	RQ	G	SOD-323F	3K / 7" Reel	B1
BAT42WS		RR	G	SOD-323F	3K / 7" Reel	B1
BAT43WS		RQ	G	SOD-323F	3K / 7" Reel	B2
BAT43WS		RR	G	SOD-323F	3K / 7" Reel	B2

Note: Manufacture special control, if empty means no special control requirement.

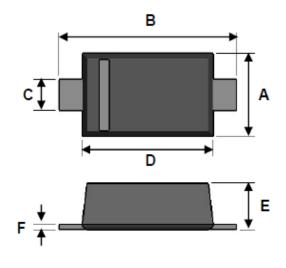
EXAMPLE					
PREFERRED P/N	PART NO.	MANUFACTURE Code	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
BAT42WS RQG	BAT42WS		RQ	G	Green compound
BAT42WS-B0 RQG	BAT42WS	B0	RQ	G	Green compound
BAT42WS-L0 RQG	BAT42WS	LO	RQ	G	Green compound



BAT42WS/BAT43WS Taiwan Semiconductor

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DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
	Min	Мах	Min	Max	
А	1.15	1.35	0.045	0.053	
В	2.30	2.80	0.091	0.110	
С	0.25	0.40	0.010	0.016	
D	1.60	1.80	0.063	0.071	
E	0.80	1.10	0.031	0.043	
F	0.05	0.25	0.002	0.010	



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Taiwan Semiconductor

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