



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

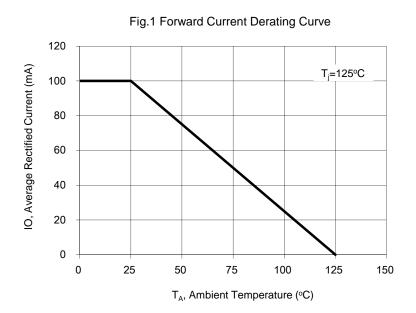
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	VALUE	UNIT			
Power Dissipation	P _D	200	mW			
Repetitive Peak Reverse Voltage	V_{RRM}	30	V			
Maximum DC Blocking Voltage	V _R	30	V			
Average Rectified Forward Current	I _{F(AV)}	200	mA			
Peak Forward Surge Current	I _{FSM}	4	A			
Operating and Storage Temperature Range	$T_{J_1}T_{STG}$	-65 to +125	°C			

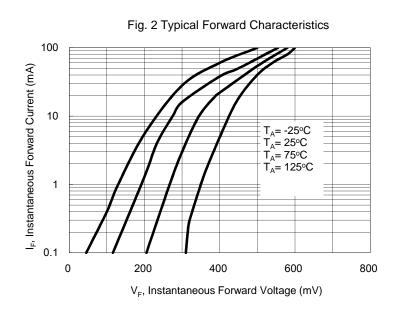
P.A	SYMBOL	MIN	MAX	UNIT	
Breakdown Voltage	I _R =100μA	B _V	30		V
	BAT42WS at $I_F = 200 \text{ mA}$			1.0	
	BAT42WS at $I_F = 10 \text{ mA}$			0.4	
Forward Voltage	BAT42WS at $I_F = 50 \text{ mA}$			0.65	
	BAT43WS at $I_F = 200 \text{ mA}$	V _F		1.0	V
	BAT43WS at $I_F = 2 \text{ mA}$		0.26	0.33	
	BAT43WS at $I_F = 15 \text{ mA}$			0.45	
Reverse Leakage Current at V _R = 25 V		I _R		500.0	nA
Junction Capacitance	nction Capacitance V _R =1V, f=1.0MHz		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

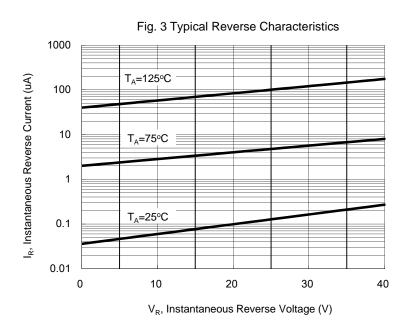


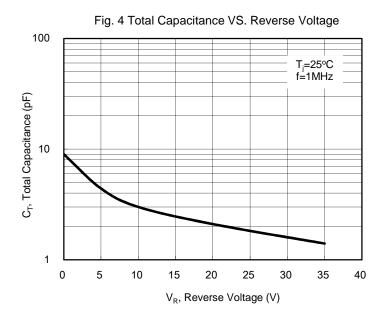
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)













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

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

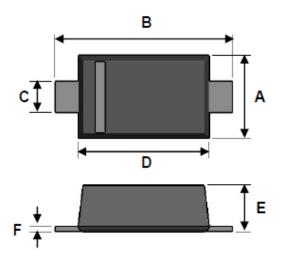
EXAMPLE						
PREFERRED P/N	PART NO.	MANUFACTURE	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
	r Aiti ito.	CODE	I AGRING GODE	CODE	District Tion	
BAT42WS RRG	BAT42WS		RR	G	Green compound	
BAT42WS-B0 RRG	BAT42WS	В0	RR	G	Green compound	
BAT42WS-L0 RRG	BAT42WS	L0	RR	G	Green compound	

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DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	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	
Е	0.80	1.10	0.031	0.043	
F	0.05	0.25	0.002	0.010	

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