

SOD-523F I_{FSM}=4A 30V/200mA Schottky Diode

FEATURES

- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mounted Device
- Moisture sensitivity level 1
- Pb free and RoHS compliant
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

- Case: Flat lead SOD-523F package
- High temperature soldering guaranteed: 260°C/10s
- Weight: 9.9mg (approximately)

APPLICATION

- Portable consumer electronic devices



SOD-523F





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	VALUE	UNIT	
Working Peak Reverse Voltage	V _{RWM}	30	V	
DC Blocking Voltage	V _R	30	V	
RMS Reverse Voltage	V _{R(RMS)}	21	V	
Forward Continuous Currect	I _{FM}	200	mA	
Peak Forward Surge Current @t< 10ms	I _{FSM}	4	А	
Repetitive Peak Forward Current @t< 1.0s	I _{FRM}	500	mA	
Power Dissipation	P _D	200	mW	
Thermal Resistance form Junction to Ambient	R _{thjA}	500	°C/W	
Junction Temperature	TJ	125	°C	
Storage Temperature Range	T _{STG}	- 55 to + 150	°C	

PARAMETER	TEST CONDITION	SYMBOL	MIN	MAX	UNIT
Reverse Breakdown Voltage	at I _R = 10 μA	V _(BR)	30		V
Reverse Current	at V _R = 25 V	I _R		0.5	μA
	at I _F = 2mA		0.26	0.33	V
Forward Voltage	at I _F = 15mA	V _F		0.45	v
	at I _F = 200mA	7		1	V
Capacitance Between Terminals	V _R =1V, f=1.0MHz	C _T		10	pF
Reverse Recovery Time $I_F = I_R = 10 \text{mA}$ $I_{rr} = 0.1 \text{XI}_R, R_L = 100 \Omega$		t _{rr}		5	ns

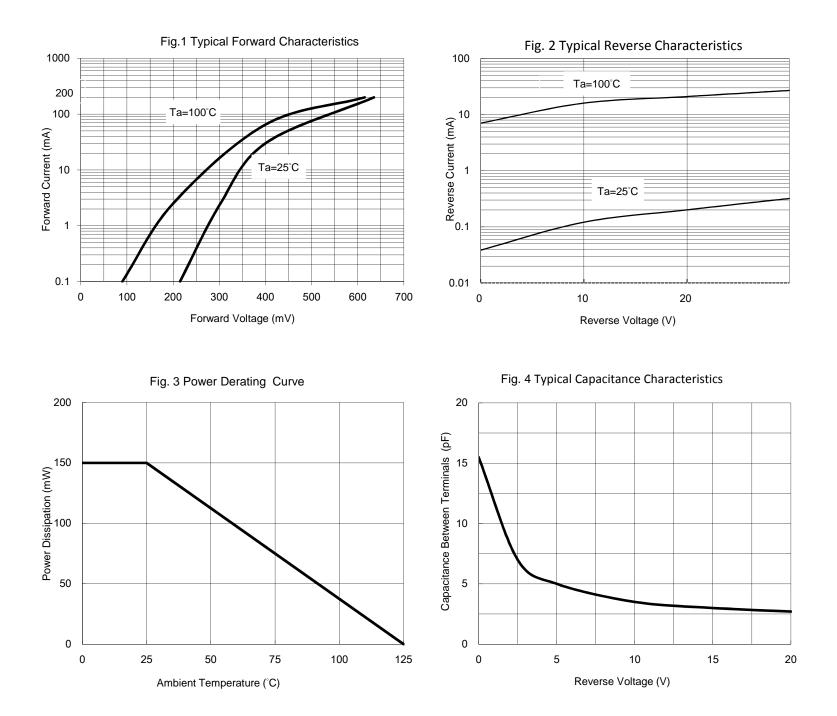
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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





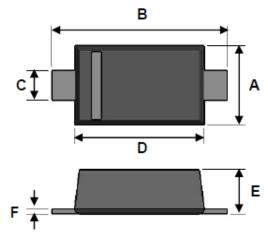
ORDERING INFORMATION						
PART NO.	MANUFACTURE CODE	PACKING Code	GREEN COMPOUND CODE	PACKAGE	PACKING	MARKING
BAT43X	(Note)	RS	G	SOD-523F	8K / 7" Reel	S8

Note: Indicator of manufacturing site for manufacture special control, if empty means no special control requirement

EXAMPLE					
PREFERRED P/N	PART NO.	MANUFACTURE Code	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
BAT43X RSG	BAT43X		RS	G	Green compound
BAT43X-M0 RSG	BAT43X	MO	RS	G	Green compound

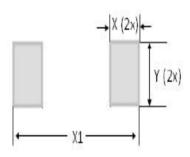


PACKAGE OUTLINE DIMENSIONS SOD-523F



DIM.	Unit	(mm)	Unit (inch)		
DIW.	Min.	Max.	Min.	Max.	
А	0.70	0.90	0.028	0.035	
В	1.50	1.70	0.059	0.067	
С	0.25	0.40	0.010	0.016	
D	1.10	1.30	0.043	0.051	
E	0.50	0.77	0.020	0.030	
F	0.07	0.20	0.003	0.008	

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)
	Тур.	Тур.
Х	0.60	0.024
X1	2.30	0.091
Y	0.80	0.031

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