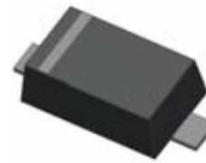


Small Signal Product
200mW, SMD High Speed Switching Diode
FEATURES

- Fast switching device ($t_{rr} < 4.0$ ns)
- Surface mount device type
- Moisture sensitivity level 1
- Matte Tin(Sn) lead finish
- Pb free and RoHS compliant
- Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code


SOD-523F

MECHANICAL DATA

- Case: Flat lead SOD-523F small outline plastic package
- Terminal: Matte tin plated, lead free , solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10s
- Polarity: Indicated by cathode band
- Weight: 1.68 ± 0.5mg
- Marking code: A


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

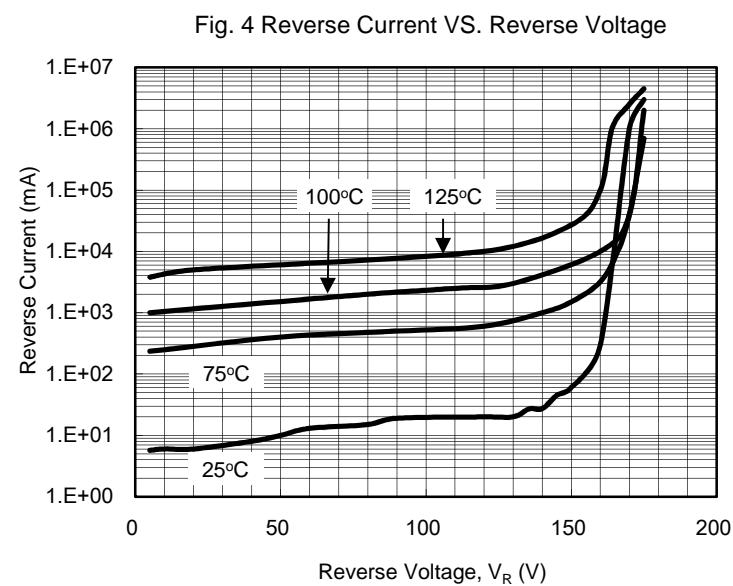
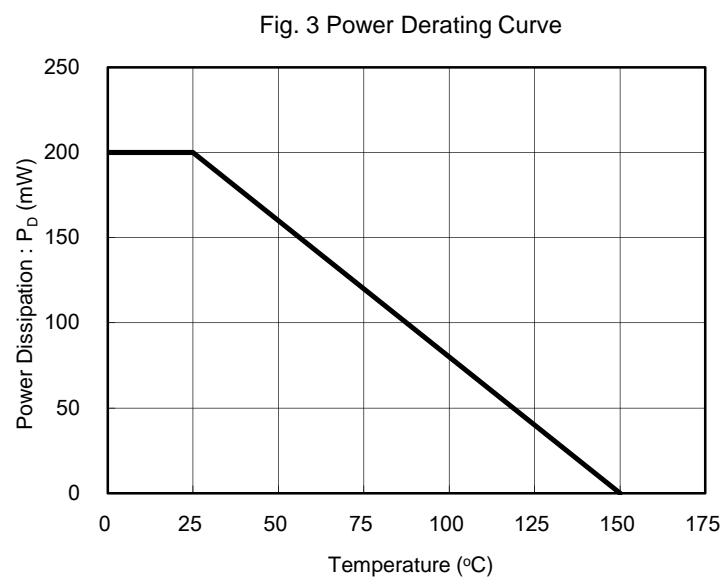
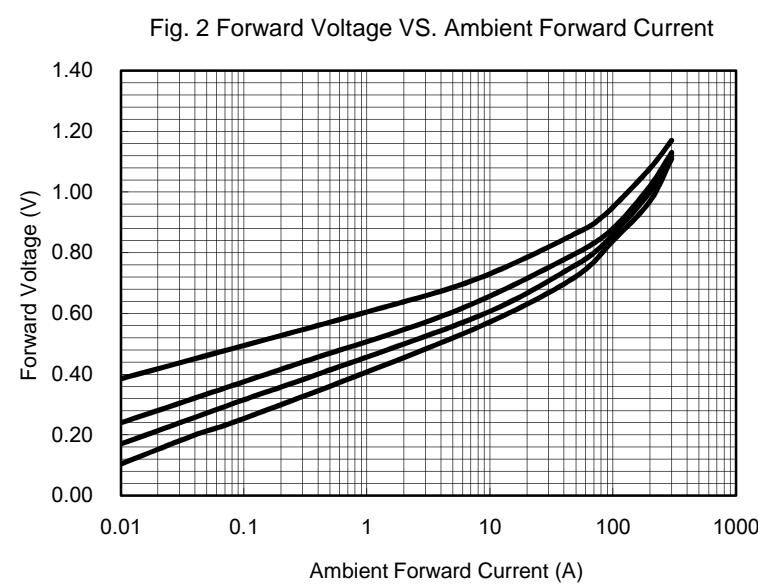
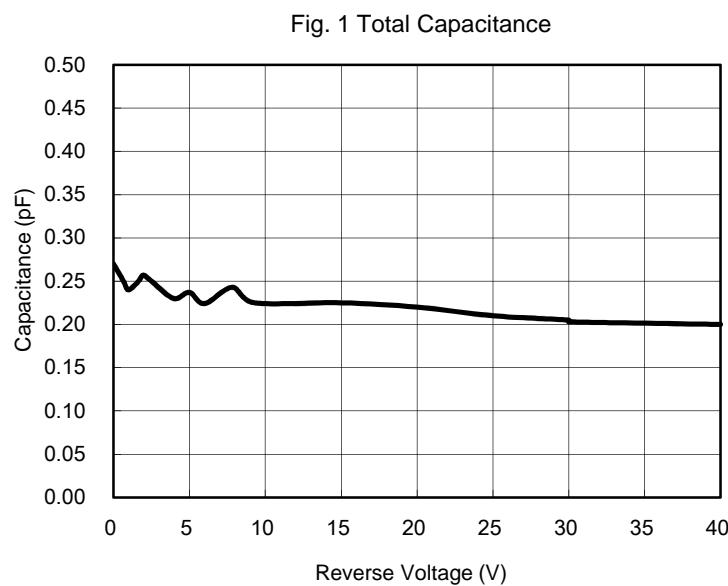
PARAMETER	SYMBOL	LIMIT			UNIT
Power Dissipation	P_D	200			mW
Repetitive Peak Reverse Voltage	V_{RRM}	100			V
Reverse Voltage	V_R	100			V
Mean Forward Current	I_O	200			mA
Peak Forward Surge Current	I_{FSM}	500			mA
Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	625			°C/W
Storage Temperature Range	T_J, T_{STG}	-55 to + 150			°C

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST CONDITION	UNIT
Breakdown Voltage	$V_{(BR)}$	100		-	$I_R = 100 \mu\text{A}$	V
Forward Voltage	V_F	-		1.2	$I_F = 100 \text{ mA}$	V
Reverse Leakage Current	I_R	-		0.1	$V_R = 80 \text{ V}$	µA
Reverse Recovery Time	t_{rr}			4	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 100 \Omega$	nS
Junction Capacitance	C_J	-		4	$V_R = 0.5 \text{ V}, f = 1.0 \text{ MHz}$	pF

Small Signal Product

RATINGS AND CHARACTERISTICS CURVES (1SS400)

(TA=25°C unless otherwise noted)



Small Signal Product

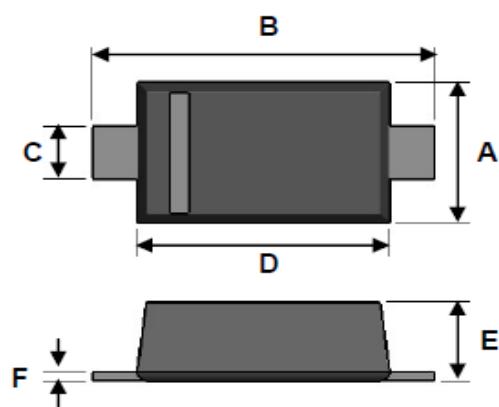
ORDERING INFORMATION						
PART NO.	MANUFACTURE CODE (Note)	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	MARKING
1SS400		RK	G	SOD-523F	3K / 7" Reel	A
1SS400		RS	G	SOD-523F	8K / 7" Reel	A

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
1SS400 RKG	1SS400		RK	G	Green compound
1SS400-L0 RKG	1SS400	L0	RK	G	Green compound
1SS400-B0 RKG	1SS400	B0	RK	G	Green compound

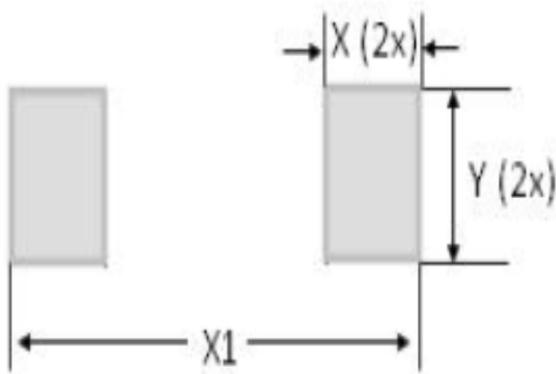
DIMENSIONS

SOT-523F



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	0.70	0.90	0.028	0.035
B	1.50	1.70	0.059	0.067
C	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

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	
	Typ.	Typ.
X	0.60	0.024
X1	2.30	0.091
Y	0.80	0.031

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