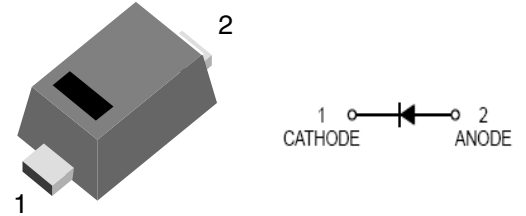


Fast Switching Diode in SOD-523

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



Mechanical Data

- **Case:** SOD-523 (plastic package).
Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

Applications

- High Speed Switching and Reverse Polarity Protection
- High Speed Rectifying Applications
- Consumer, Automotive and Telecommunication Industry

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

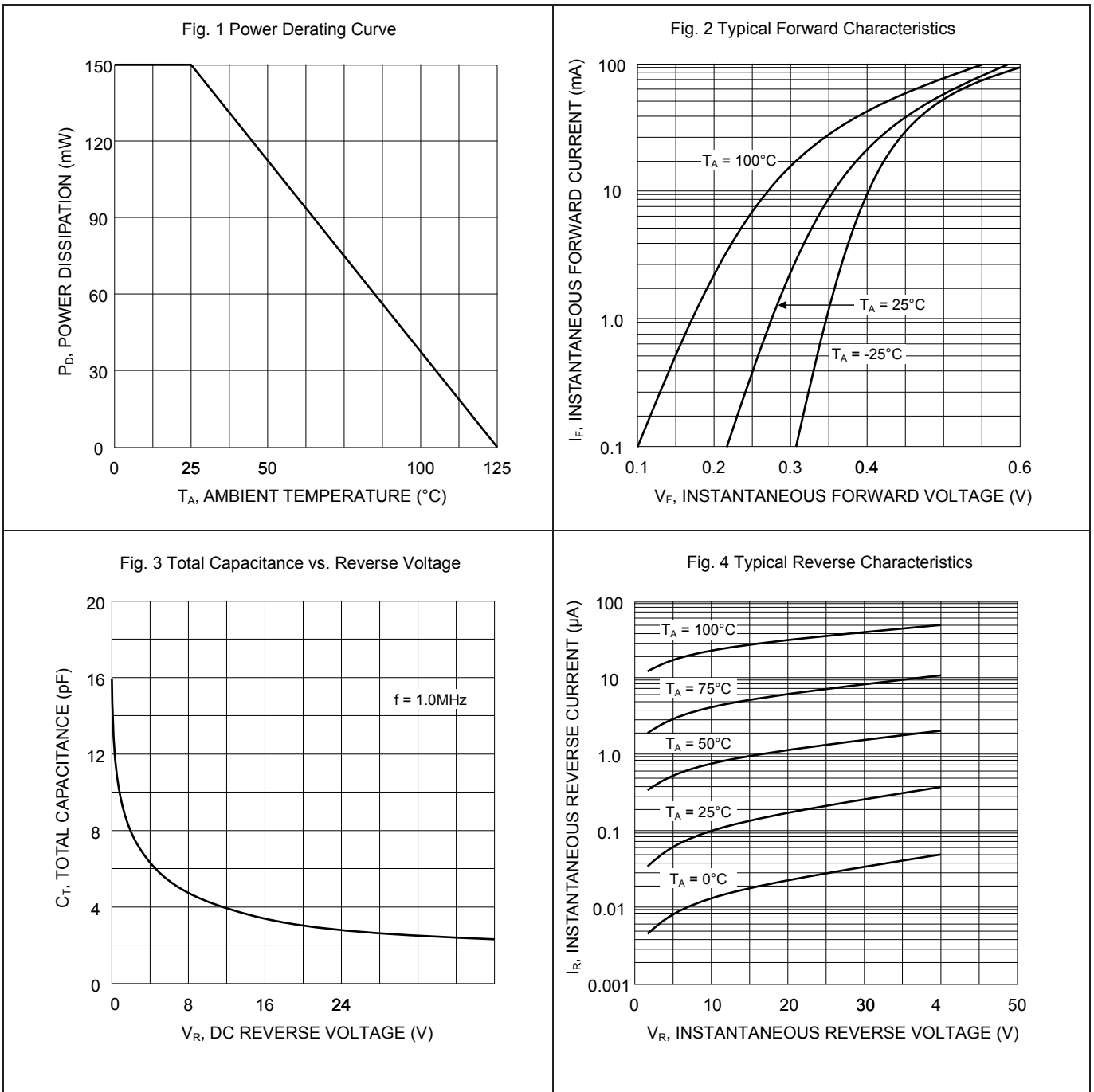
Symbol	Parameter	Value	Unit
V_{RM}	Peak Reverse Voltage	45	V
V_R	DC Reverse Voltage	40	V
I_F	Forward Continuous Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current (@t=8..3ms)	1.0	A
P_D	Power Dissipation	150	mW
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +125	°C

Electrical Characteristics

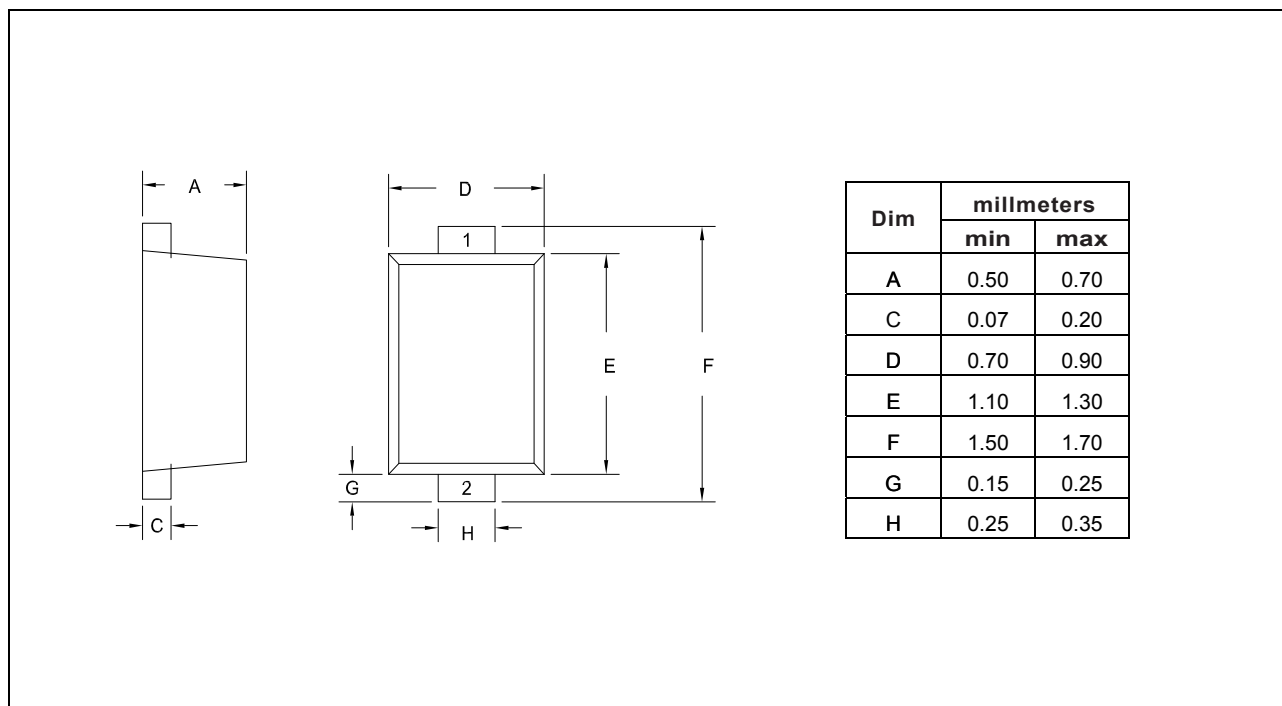
($T_A = 25\text{ °C}$ unless otherwise specified)

Symbol	Parameter	Conditions	Min	Max	Units
V_F	Forward Voltage	$I_F = 1\text{ mA}$		0.28	V
		$I_F = 10\text{ mA}$		0.36	V
		$I_F = 50\text{ mA}$		0.60	V
I_R	Reverse current	$V_R = 10\text{ V}$		5	$\mu\text{ A}$
C_d	Diode capacitance	$V_R = 0\text{ V}, f = 1\text{ MHz}$		25	pF

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
1SS388	SOD-523	Tape and reel	8000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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