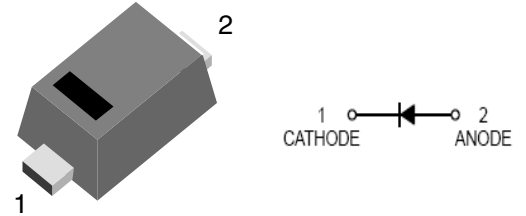


## Fast Switching Diode in SOD-523

### 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; Halogen free
- **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

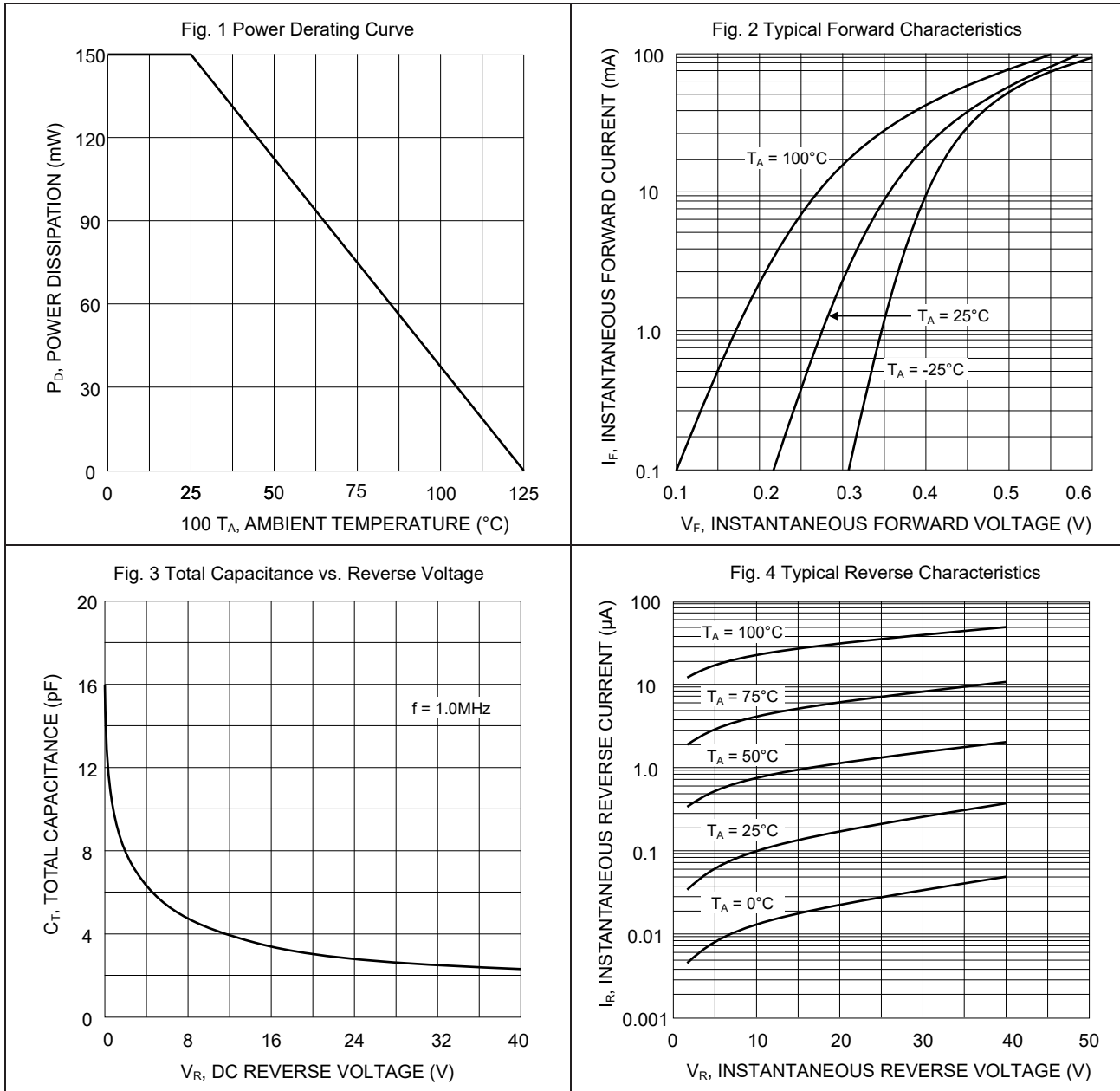
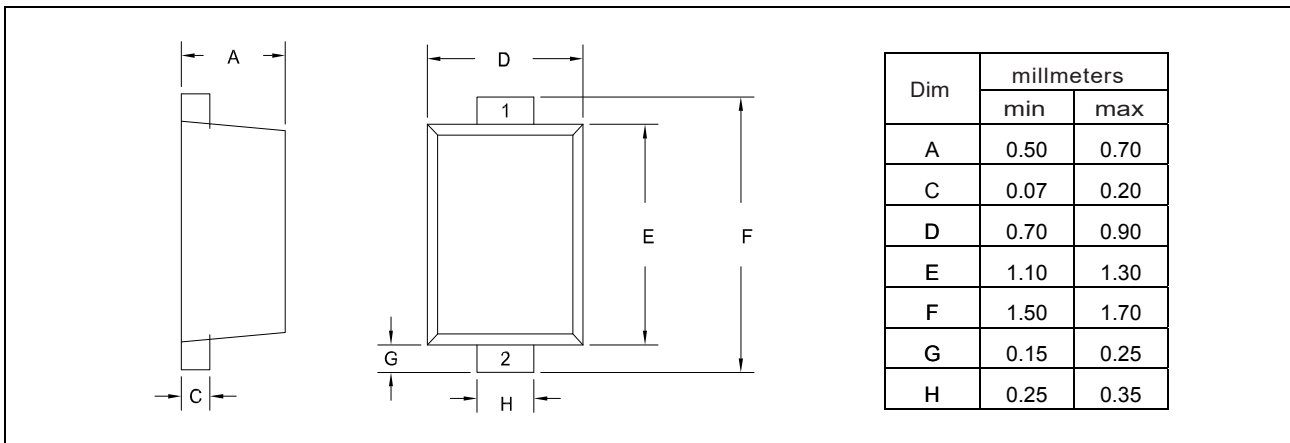
Ratings at 25 °C, ambient temperature unless otherwise specified

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

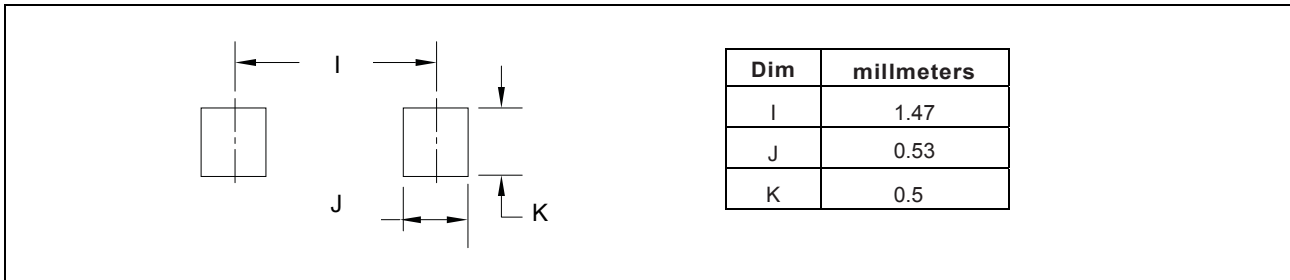
### Electrical Characteristics

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

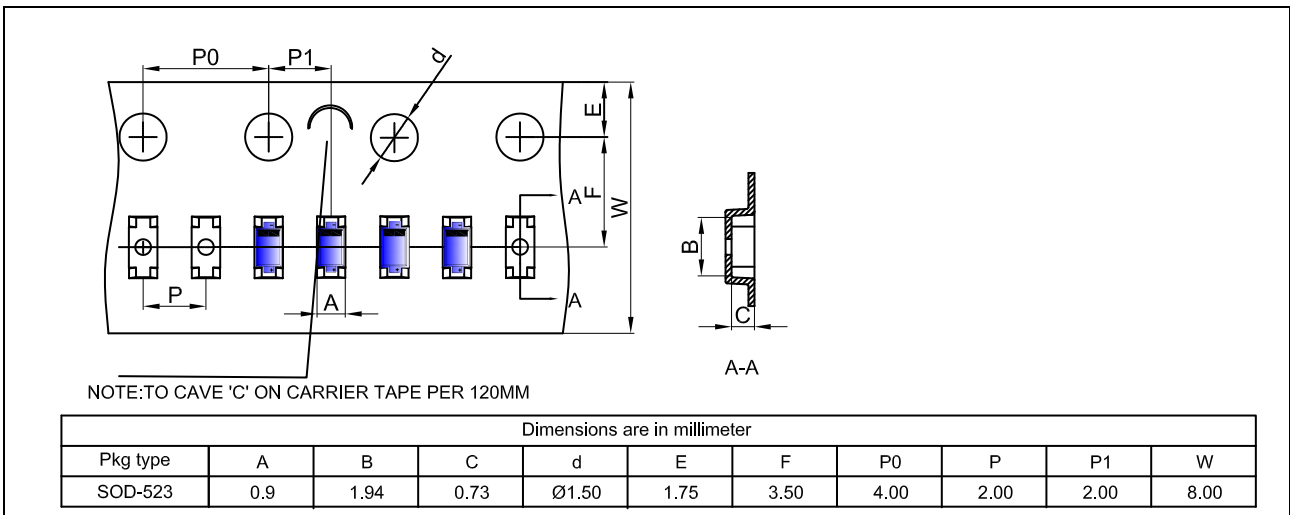
Symbol	Parameter	Conditions	Min	Max	Units
$V_F$	Forward Voltage	$I_F = 1\text{mA}$		0.28	V
		$I_F = 10\text{mA}$		0.36	V
		$I_F = 50\text{mA}$		0.60	V
$I_R$	Reverse current	$V_R = 10\text{V}$		5	$\mu\text{A}$
$C_d$	Diode capacitance	$V_R = 0\text{V}$ , $f = 1\text{MHz}$		25	pF

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

**Package Dimensions**


### PAD Dimensions



### Package Information



### 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-2020	1.0	Initial release

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