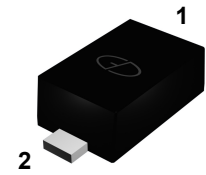


## Features

- High Voltage
- High Reliability



Package: SOD-523

## Absolute Maximum Ratings

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	300	V
Continuous Reverse Voltage	$V_R$	240	V
Average Forward Current	$I_O$	200	mA
Continuous Forward Current	$I_F$	225	mA
Peak Repetitive Forward Current	$I_{FRM}$	625	mA
Peak Forward Surge Current, $t_p=1.0\mu\text{s}$	$I_{FSM}$	4.0	mA
Peak Forward Surge Current, $t_p=1.0\text{s}$	$I_{FSM}$	1.0	mA
Power Dissipation	$P_D$	250	mW
Thermal Resistance	$\theta_{JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature range	$T_{STG}$	-55 to 150	

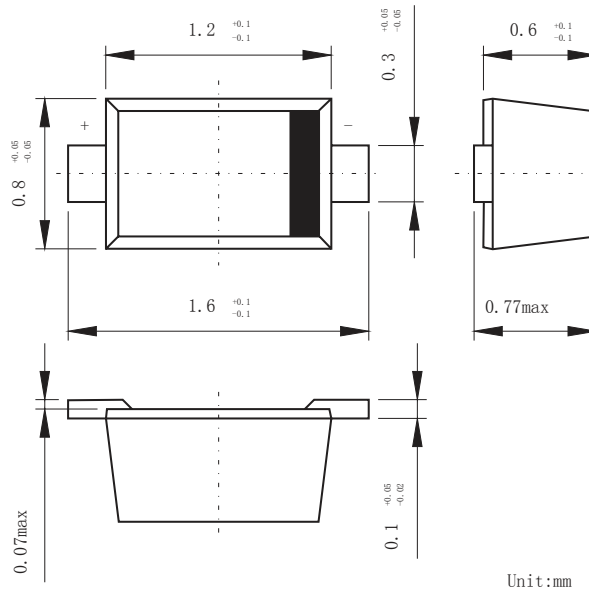
## Electrical Characteristics

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Max	Unit
Reverse Breakdown Voltage	$B_{VR}$	$I_R=100\ \mu\text{A}$	300		V
Forward Voltage	$V_F$	$I_F=100\ \text{mA}$		1.0	V
Reverse Voltage Leakage Current	$I_R$	$V_R=240\ \text{V}$		100	nA
		$V_R=240\ \text{V}, T_A=150^\circ\text{C}$		100	$\mu\text{A}$
Capacitance Between Terminals	$C_T$	$V_R=0, f=1\ \text{MHz}$		5	pF
Reverse Recovery Time	$T_{RR}$	$I_F=I_R=30\ \text{mA}, I_{rr}=3.0\ \text{mA}, R_L=100\ \Omega$		50	ns

**Package Outline Dimensions**

SOD-523



Unit:mm

**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
GMOD2004	SOD-523	04	Tape & Reel	3000pcs / Reel	RoHS compliant