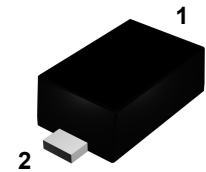


GMOD2004 High Voltage Switching Diode

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	θ_{JA}	500	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{STG}	-55 to 150	

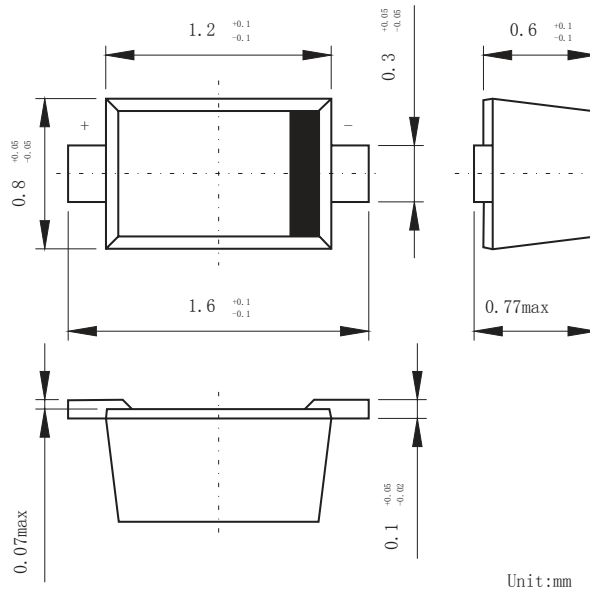
Electrical Characteristics

($T_A=25^\circ\text{C}$ 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	μA
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