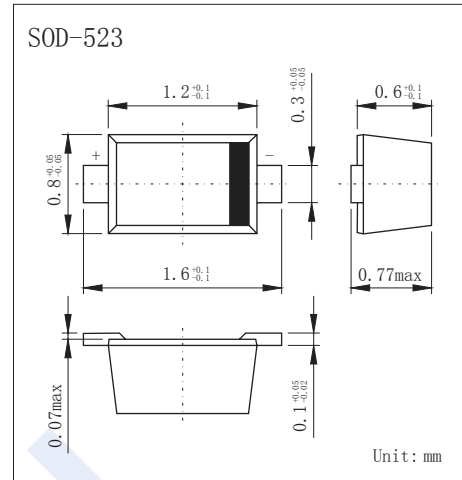


## High Voltage Switching Diode

### CMOD2004

#### ■ Features

- High Voltage
- High Reliability



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	300	V
Continuous Reverse Voltage	V <sub>R</sub>	240	
Average Forward Current	I <sub>o</sub>	200	mA
Continuous Forward Current	I <sub>F</sub>	225	
Peak Repetitive Forward Current	I <sub>FRM</sub>	625	
Peak Forward Surge Current, tp=1.0us	I <sub>FSM</sub>	4.0	
Peak Forward Surge Current, tp=1.0s	I <sub>FSM</sub>	1.0	
Power Dissipation	P <sub>D</sub>	250	mW
Thermal Resistance	θ <sub>JA</sub>	500	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 150	

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	B <sub>V</sub> R	I <sub>R</sub> = 100 uA	300			V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 100 mA			1.0	
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> = 240V			100	nA
		V <sub>R</sub> = 240V, Ta=150 C			100	uA
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> = 0, f= 1 MHz			5	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =30mA, I <sub>rr</sub> =3.0mA, R <sub>L</sub> =100Ω			50	ns

#### ■ Marking

Marking	04
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