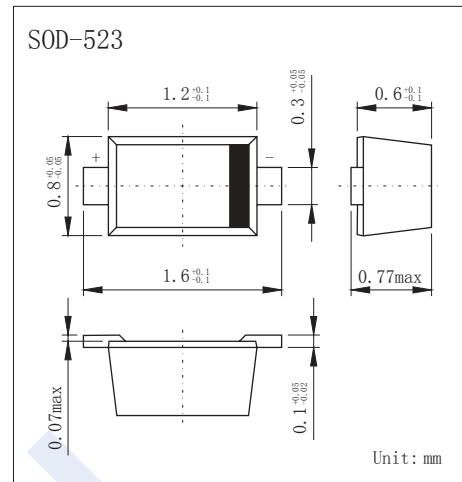


High Voltage Switching Diode

CMOD2004

■ Features

- High Voltage
- High Reliability



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Continuous Reverse Voltage	V_R	240	
Average Forward Current	I_o	200	mA
Continuous Forward Current	I_F	225	
Peak Repetitive Forward Current	I_{FRM}	625	
Peak Forward Surge Current, $t_p=1.0\mu\text{s}$	I_{FSM}	4.0	
Peak Forward Surge Current, $t_p=1.0\text{s}$	I_{FSM}	1.0	
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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	BVR	$I_R = 100\text{ }\mu\text{A}$	300			V
Forward voltage	V_F	$I_F = 100\text{ mA}$			1.0	
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

■ Marking

Marking	04
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