

## **Ultra Low Capacitance ESD Protection Diode**

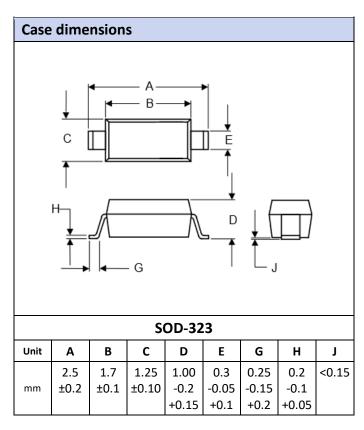
Primary characteristics						
Parameter	Symbol	Value	Unit			
Reverse working voltage	$V_{\text{RWM}}$	3.3	V			
ESD per IEC 61000-4-2 (contact)	V <sub>ESD</sub>	±20	kV			
ESD per IEC 61000-4-2 (air)	V <sub>ESD</sub>	±20	kV			
Peak pulse power (8/20μs)	P <sub>PP</sub>	100	W			
Junction capacitance (typ.)	Cı	0.25	pF			

## **Features**

- **SOD-323** case for easy automatic insertion.
- Pb-free and RoHS compliant
- Transient protection for high-speed data lines
- Low leakage current
- Low clamping voltage
- Protects one data, control line

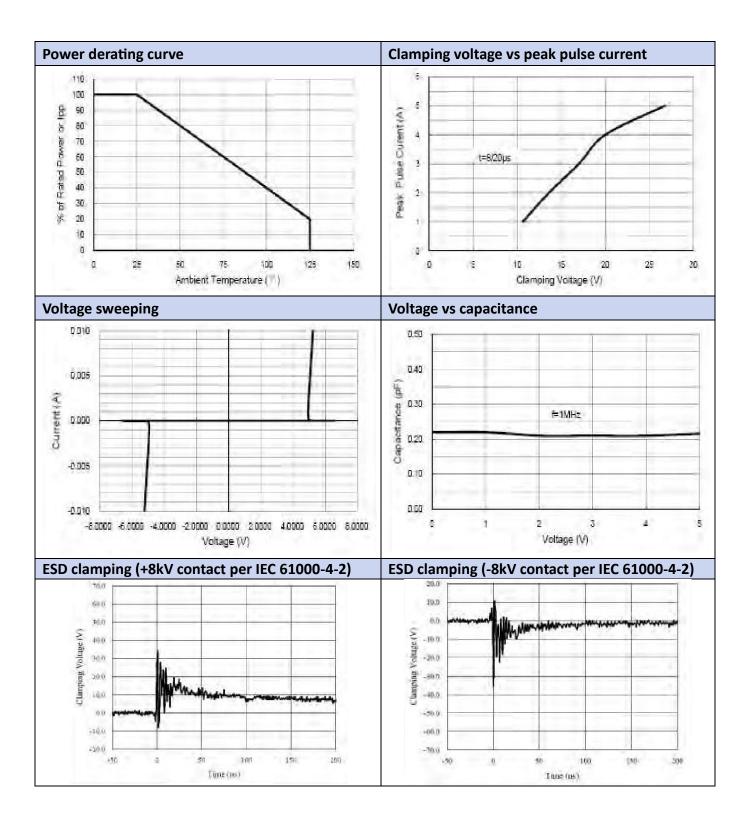
## **Applications**

- 10/100M ethernet ports
- WAN/LAN equipment
- Desktops, servers and notebooks
- Cellular phones
- Switching systems
- Audio/Video Inputs

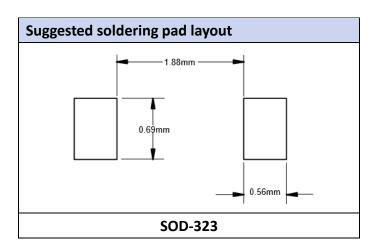


Characteristics	Test condition	Cumhal	Value			l lm!s
Characteristics		Symbol	Min.	Тур.	Max.	Unit
ESD per IEC 61000-4-2 (contact)		V <sub>ESD</sub>	-20	-	+20	kV
ESD per IEC 61000-4-2 (air)	-					
Peak pulse power (8/20μs)	-	P <sub>PP</sub>	-	-	100	W
Operating temperature	-	Торт	-55	-	125	°C
Storage temperature	-	T <sub>STG</sub>	-55	-	150	°C
Lead solder temperature	Maximum (10 second duration)	T∟			260	°C
Reverse working voltage	-	$V_{RWM}$	-	-	3.3	V
Reverse breakdown voltage	I <sub>T</sub> =1.0mA	$V_{BR}$	4.2	-	-	V
Reverse leakage current	V <sub>RWM</sub> =3.3V	I <sub>R</sub>	-	-	100	nA
Clamping voltage	$I_{PP}$ =1.0A, $t_p$ =8/20 $\mu$ s	V	-	-	12	V
	I <sub>PP</sub> =4.0A, t <sub>p</sub> =8/20μs	Vc	-	-	25	V
Junction capacitance	V <sub>R</sub> =0V, f=1.0MHz	Cı		0.25	0.40	pF









Ordering information								
Part Number	Marking	Package	Shipping Quantity	Industry standard				
ESD3Z3.3CM	2M	SOD-323	3 000 pcs / 7" reel	EIA-481-1				

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