

# **ESD Protection Diode**

#### **Features**

- 350W peak pulse power (tp= 8/20 µs)
- SOD-323 package
- Fast response time,typically < 1 ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2  $\pm$  30kV (Air) ESD protection
- IEC 61000-4-2  $\pm$  30kV (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- RoHS compliant

### Applications

- Laptop computers
- Cellular phones
- Digital cameras
- PDAs

Absolute Maximum Ratings (TA=25°C unless otherwise noted)				
Parameter	Symbol	Value	Unit	
Peak Pulse Power (TP=8/20µ S)	Ррр	350	W	
Peak Pulse Current (TP=8/20µS)	Ірр	13.5	А	
Operating Temperature	TJ	-55-+150	°C	
Storage temperature	Tstg	-55-+150	°C	

Electrical Characteristics (TA=25°C unless otherwise noted)							
Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Reverse stand-off voltage	Vrwm				5	V	
Reverse Breakdown Voltage	V <sub>BR</sub>	l⊤=1mA	6		7.8	V	
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			1	μA	
		<sub>PP</sub> =1Α,T <sub>P</sub> =8/20μs			9.8		
Clamping Voltage	V <sub>c</sub>	<sub>PP</sub> =9.8A,T <sub>P</sub> =8/20µs		17		V	
		PP=13.5A,TP=8/20µs		25			
Junction Capacitance	CJ	V R=0V,f=1MHz		80	100	pF	

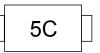


COMPLIANT



Marking: 5C

SOD-323



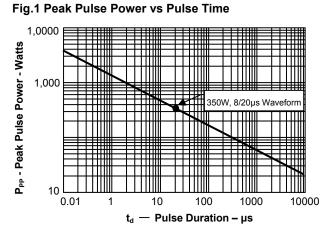
Schematic Diagram

-DK-) 0--0



# **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)





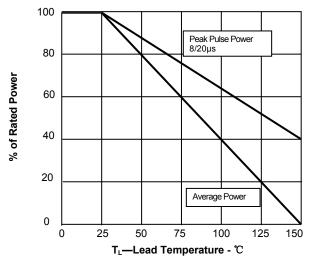


Fig.2 Pulse WaveForm-8/20µs

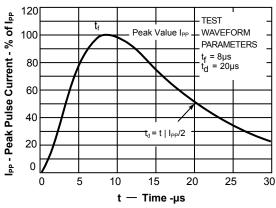
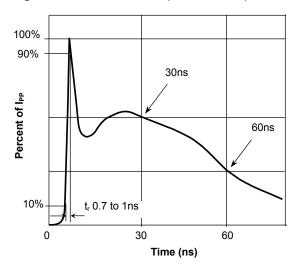


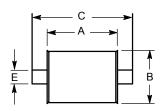
Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

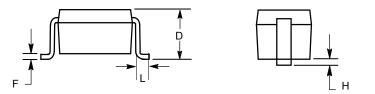




# **Package Outline Dimensions**

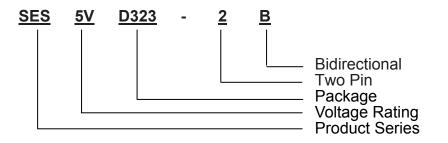
in inches (millimeters)





Dim	millmeters			
DIII	min	max		
А	1.60	1.90		
В	1.15	1.45		
С	2.39	2.70		
D	0.80	1.10		
Е	0.25	0.40		
F	0.10	0.20		
Н		0.10		
L	0.20	-		

### Part Number System



# **Revision History**

Document Version	Date of release	Description of changes	
Rev.A	2021.05.01	First issue	



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