

GOOD-ARKElectronics

ESD Protection Diode

Features

- 360W 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 61000-4-5 24A (8/20us) Surge 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	360	W	
Peak Pulse Current (TP=8/20µS)	Ірр	24	А	
Operating Temperature	TJ	-55-+125	°C	
Storage temperature	Тѕтс	-65-+150	°C	

Electrical Characteristics (TA=25°C unless otherwise noted)							
Parameter	Symbol	Conditions	Min	Тур	Мах	Unit	
Reverse stand-off voltage	Vrwm				5	V	
Reverse Breakdown Voltage	V br	l⊤=1mA	6			V	
Reverse Leakage Current	IR	V _{RWM} =5V			1	μA	
Clamping Voltage	V _c	_{PP} =24A ,T _P =8/20μs		15		V	
Junction Capacitance	CJ	V R=0V,f=1MHz		80	90	pF	





Marking:05B

SOD-323



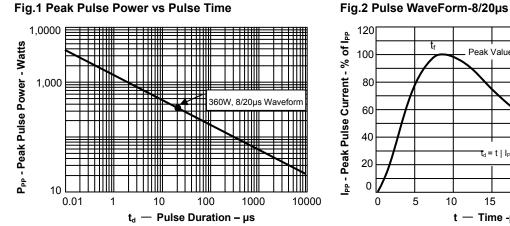


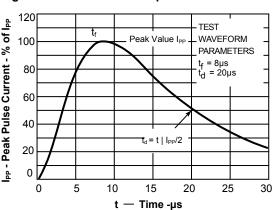
Schematic Diagram



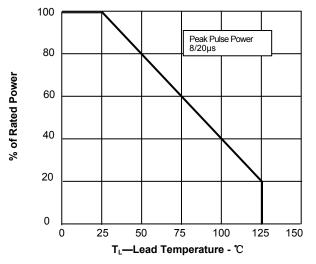
Ratings and Characteristics Curves

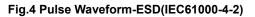
(TA = 25°C unless otherwise noted)

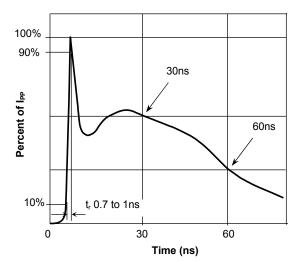








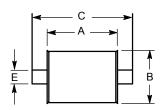


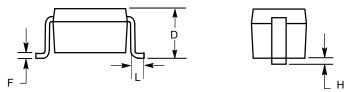




Package Outline Dimensions

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	-		

Revision History

Document Version	Date of release	Description of changes
Rev.A	2022.08.01	First issue



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