DSD07DFMC



Single Line Bi-directional TVS Diode for EOS

General description

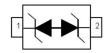
EOS/ESD Protection Diode in SOD-123FL

FEATURES

- 3600Watt peak pulse power (t/p=8/20uS)
- Low leakage current
- Low clamping voltage
- High capacitance (Cj=520 pF typ.)
- IEC 61000-4-2 ±30Kv Contact ±30Kv air.
- RoHS Compliant



SOD-123FL Package



Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV
P _{PP}	Peak Pulse Power (8/20µs)	3600	W
T _{OPT}	Operating Temperature	-55~125	°C
T _{STG}	Storage Temperature	-55~150	°C
T∟	Lead Soldering Temperature	260(10sec)	°C

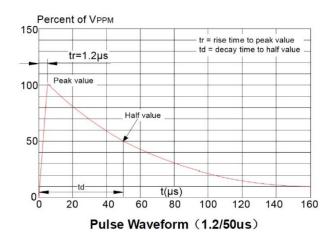
Electrical Characteristics (T_A = 25°C unless otherwise noted)

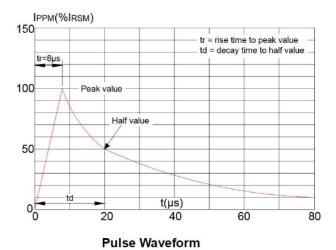
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V_{RWM}	Reverse Working Voltage				7.0	٧
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	8.0		10.0	V
I _R	Reverse Leakage Current	V _{RWM} = 7V			1.0	μA
I _{PP}	Peak Pulse Current	t _p = 8/20µs			200	Α
Vc	Clamping Voltage	$I_{PP} = 200A, t_p = 8/20 \mu s$			18	٧
Сл	Junction Capacitance	V _R = 0V, f = 1MHz		520	550	pF

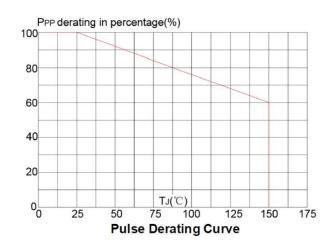
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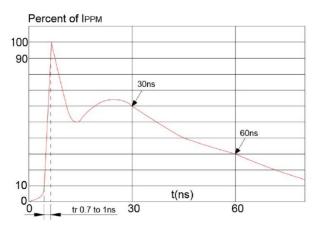


ELECTRICAL CHARACTERISTICS CURVE





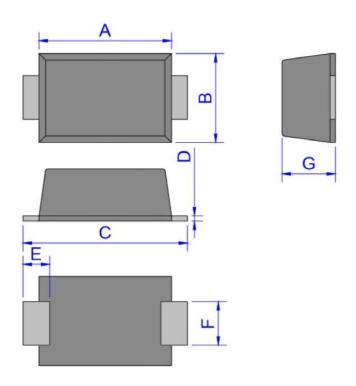




ESD Clamping(30kV Contact Discharge)

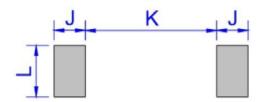


SOD-123FL PACKAGE OUTLINE DIMENSIONS



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
Α	2.60	3.00	0.102	0.118		
В	1.60	2.00	0.063	0.079		
С	3.45	3.95	0.136	0.156		
D	0.10	0.25	0.004	0.01		
E	0.3	0.9	0.012	0.035		
F	0.80	1.20	0.031	0.047		
G	0.95	1.35	0.037	0.053		
J	1.30		0.051			
K		1.70		0.067		
L	1.30		0.051			

Recommend Land Pattern (Unit: mm)



Note:

This recommended land pattern is for reference purpose only.

DSD07DFMC



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