

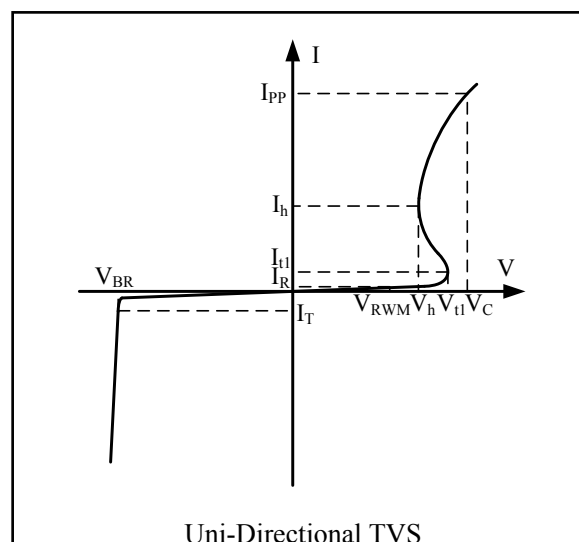


Absolute Maximum Rating

Symbol	Parameter	Value	Units
I_{PP}	Peak Pulse Current (8/20 μ s)	80	A
P_{PK}	Peak Pulse Power (8/20 μ s)	1000	Watts
V_{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	± 30 ± 30	kV
T_{OPT}	Operating Temperature	-45 to +85	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics (T = 25°C)

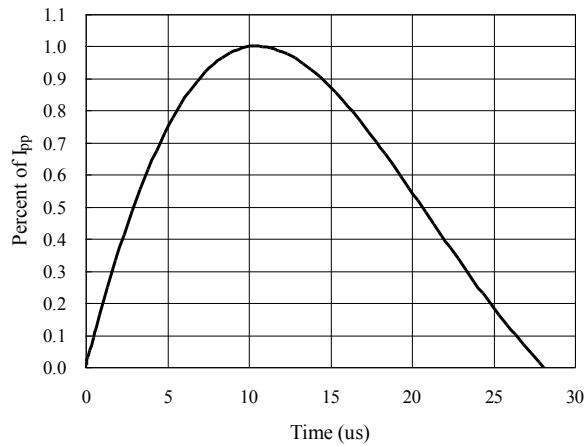
Symbol	Parameter
V_{RWM}	Nominal Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{tl}	Trigger Voltage
I_{tl}	Trigger Current @ V_{tl}
V_h	Holding Voltage
I_h	Holding Current @ V_h
V_C	Clamping Voltage @ I_{PP}
V_{CR}	Reverse Clamping Voltage @ I_{PP}
I_{PP}	Maximum Peak Pulse Current
C_{ESD}	Parasitic Capacitance



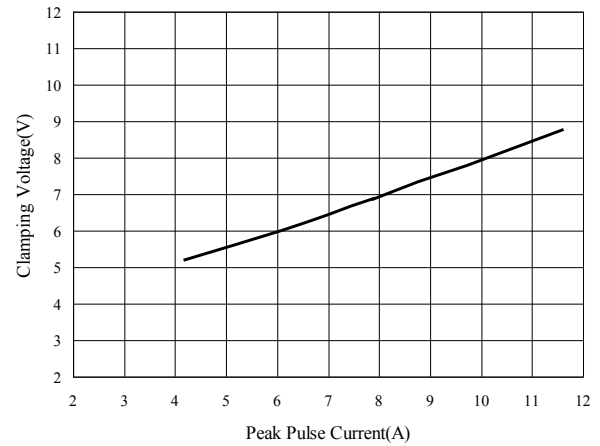
Symbol	Test Condition	Minimum	Typical	Maximum	Units
V_{RWM}				3.3	V
I_R	$V_{RWM} = 3.3V, T = 25^\circ C$		0.1	1.0	μA
V_{tl}	$I_{tl} = 1\mu A$	3.5	3.7	4.5	V
V_h	$I_h = 1mA$	3.5		4.0	V
V_C	$I_{PP} = 2A, t_p = 8/20\mu s$			6.5	V
V_C	$I_{PP} = 10A, t_p = 8/20\mu s$			7.0	V
C_{ESD}	$V_R = 0V, f = 1MHz$			10	pF



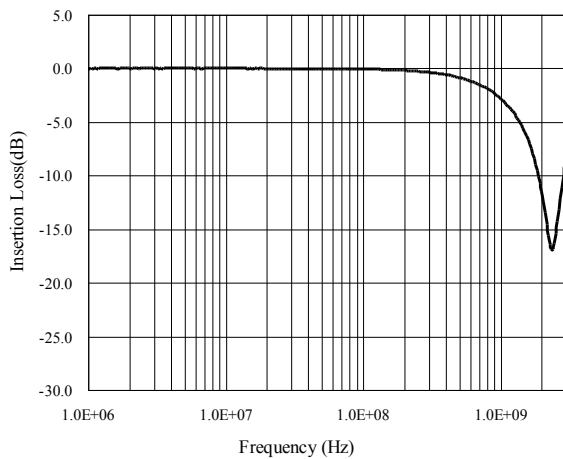
8/20μs Pulse Waveform



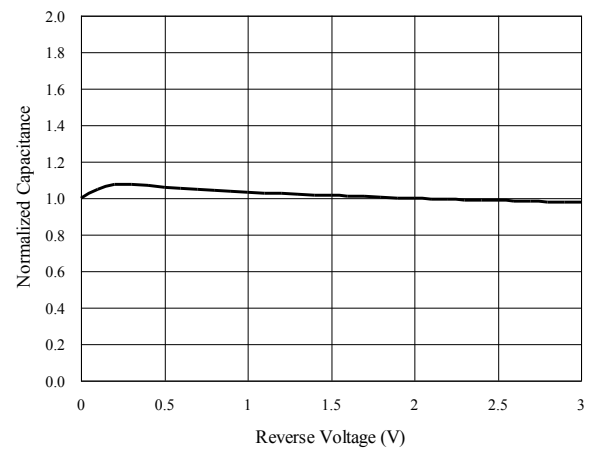
Clamping Voltage V_C vs. Current I_{PP}



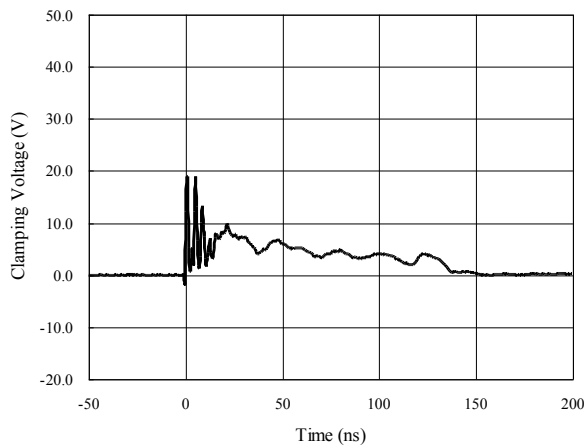
Insertion Loss S21



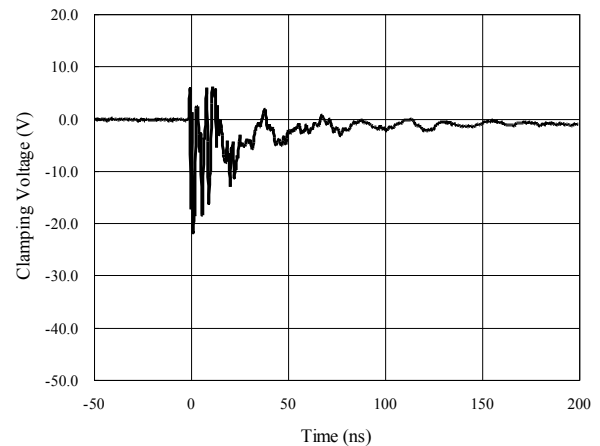
Normalized Capacitance vs. Voltage



ESD Clamping of I/O to GND (+8kV Contact per IEC 61000-4-2)



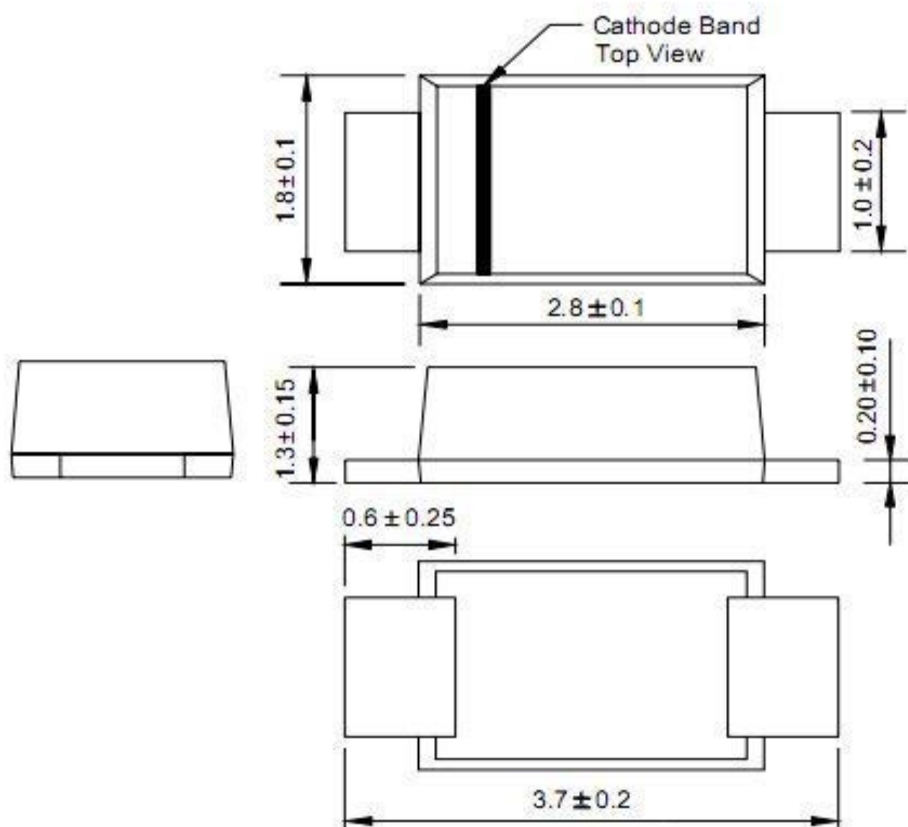
ESD Clamping of I/O to GND (-8kV Contact per IEC 61000-4-2)





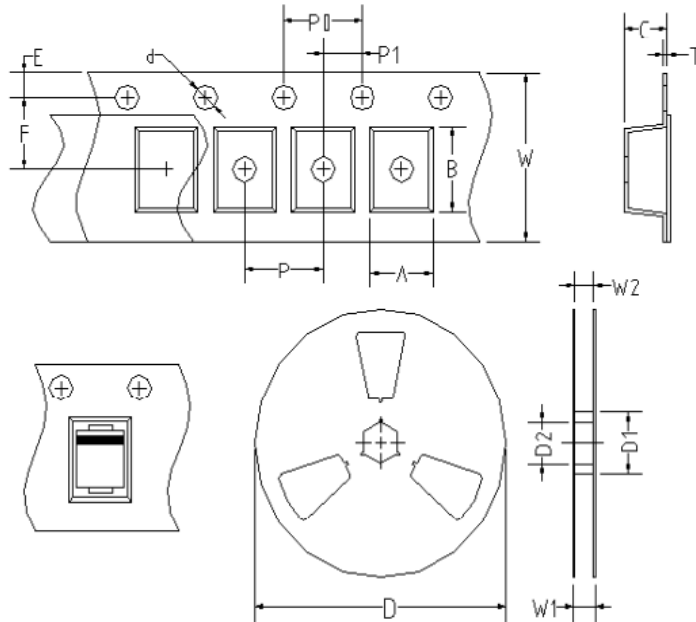
Package Outline

SOD-123F



Dimensions in millimeters

Tape and Reel Specification



REF	mm	inch
A	2.05±0.10	0.080±0.003
B	3.85±0.10	0.151±0.003
C	1.45±0.10	0.057±0.003
d	1.55±0.10	0.061±0.003
D	177.8±1.0	6.999±0.039
D1	20±1.0	0.787±0.039
D2	13.0±1.0	0.511±0.039
E	1.75±0.10	0.068±0.003
F	3.50±0.05	0.137±0.002
P	4.00±0.10	0.157±0.003
P0	4.00±0.10	0.157±0.003
P1	2.00±0.10	0.078±0.003
T	0.20±0.10	0.007±0.003
W	8.00±0.15	0.314±0.006
W1	16.2±1.5	0.637±0.006
W2	13.2±1.0	0.519±0.039

OUTLINE	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)	CARTON SIZE(mm)		
				L	W	H
TAPING	3,000	252,000	177.8	385	275	385

Marking Codes



Ordering Information

Part Number	Working Voltage	Quantity Per Reel	Reel Size
TS0311PKX	3.3V	3,000	7 Inch

Note:

- (1) "S31P" is part number, fixed.