

Applications

- Personal Digital Assistance
- Wireless System
- Cellular Phones
- Desktops and servers
- Pagers
- Peripherals

Feature

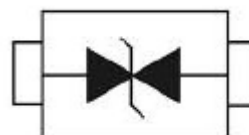
- Bi-directional configurations
- ESD Protection: Level 4
- Low clamping voltage
- 350 Watts peak pulse power per line ($t_p=8/20\mu S$)
- Working voltages: 3.3V, 5V, 12V, 15V, 24V
- Protection one power line or I/O port

IEC Compatibility

- EN61000-4
- 61000-4-2(ESD): Level 4, Contact: $\pm 8kV$, Air: $\pm 15kV$
- 61000-4-4(EFT): 40A-5/50ns
- 61000-4-5(Surge): 28A(3V), 8/20 μs



SOD323



Mechanical Characteristics

- Molded JEDEC SOD-323
- Weight 5 milligrams
- Flammability rating UL 94V-0
- Halogen Free

Device Characteristics

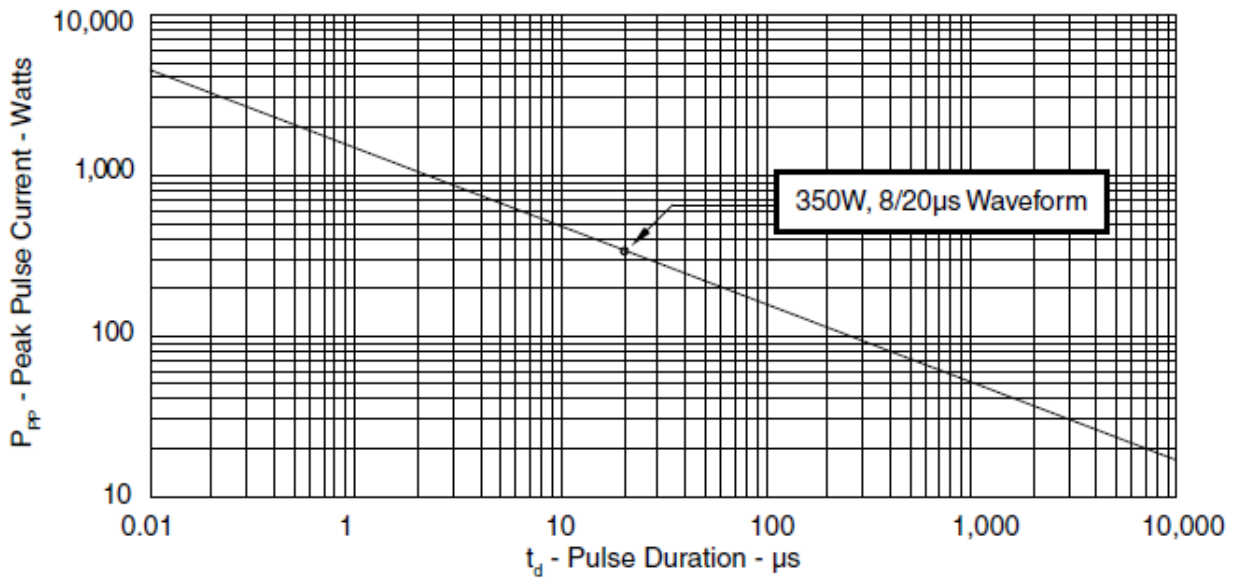
Maximum Ratings@25 unless otherwise specified			
Parameter	Symbol	Value	Units
Peak pulse power ($t_p=8/20\mu s$) see fig 1.	PPP	350	Watts
ESD Voltage (HBM Waveform per IEC 61000-4-2)	VESD	30	KV
Operating Temperature	TJ	-55~150	°C
Storage Temperature	TSTG	-55~150	°C

Electrical Characteristics

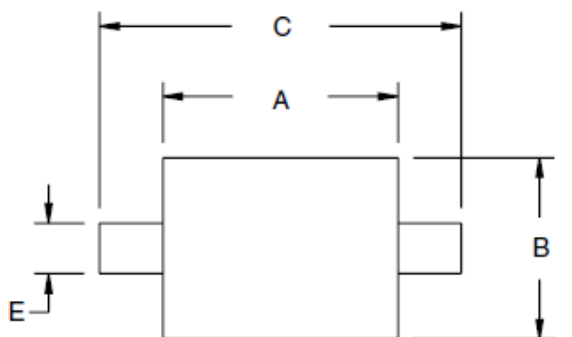
Electronical characteristics per line @25 unless otherwise specified						
Part No.	Rated Stand-off Voltage	Minimum Breakdown Voltage	Maximum Clamping Voltage	Peak Pulse Current	Maximum Leakage Current	Maximum Capacitance
	V_{RWM} (Volts)	@1mA $V_{(BR)}$ (Volts)	@ $I_{PP}=1A$ V_C (Volts)	@8/20us I_{PP} (A)	@ V_{RWM} I_R (μA)	@0V,1MHZ C (pF)
FSD03C	3.3	5.2	6.9	28	15	300
FSD05C	5.0	6.0	9.8	24	10	200
FSD12C	12.0	13.3	19.0	15	1	100
FSD15C	15.0	16.7	24.0	12	1	75
FSD24C	24.0	26.7	42.0	8	1	50

Rating and characteristic curve

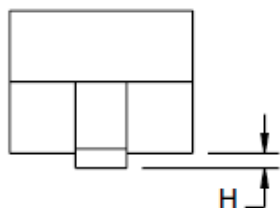
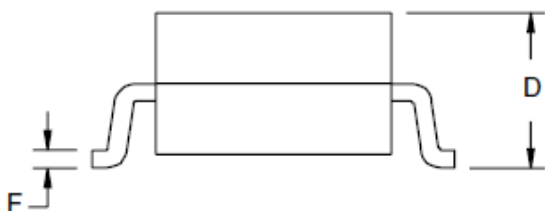
FIGURE 1
PEAK PULSE POWER VS PULSE TIME



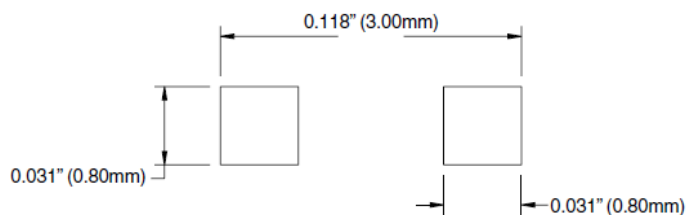
Package information



Package dimensions				
DIM	Millimeters		Inchs	
	Min	Max	Min	Max
A	1.60	1.90	0.063	0.075
B	1.15	1.45	0.045	0.057
C	2.39	2.70	0.094	0.106
D	0.92	1.10	0.036	0.043
E	0.25	0.40	0.010	0.016
F	0.10	0.20	0.004	0.008
H		0.10		0.004



Mounting pad



Ordering information

Marking code

Part No.	Package	Marking	Shipping	Reel Size
FSD03C	SOD-323	2A	3,000/ Tape@Reel	7"
FSD05C	SOD-323	2B	3,000/ Tape@Reel	7"
FSD12C	SOD-323	2D	3,000/ Tape@Reel	7"
FSD15C	SOD-323	2J	3,000/ Tape@Reel	7"
FSD24C	SOD-323	2H	3,000/ Tape@Reel	7"



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