

Features

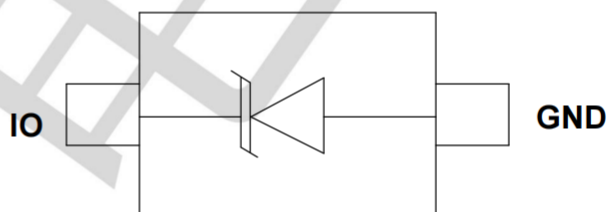
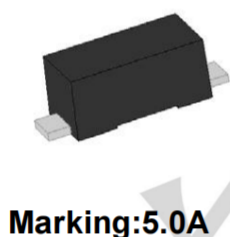
- Peak power dissipation 200W@10 x 1000 us Pluse
- Peak power dissipation of 1000W under 8/20μs waveform
- Low incremental surge resistance
- Excellent clamping capability
- Fast response time
- Low leakage current
- Halogen free and RoHS compliant

Applications

- Personal digital assistants (PDA)
- Cellular handsets & Accessories
- Handhelds and notebooks
- Portable instrumentation

Mechanical Characteristics

- SOD123FL surface mount package



Pin Configuration

Maximum Ratings& Thermal Characteristics(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak pulse power (tp=10/1000μs waveform)	P _{PP}	200	W
Peak pulse power (tp=8/20μs waveform)	P _{PP}	1000	W
ESD voltage (Contact discharge)	V _{ESD}	±8	KV
ESD voltage (Air discharge)		±15	
Storage & operating temperature range	T _{STG} ,T _J	-55~+150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Part Number	Reverse Stand-Off Voltage	Breakdown Voltage @I _T		Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}
	V _{RWM} (V)	V _{BR} MIN.(V)	V _{BR} MAX.(V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (μA)
SJD12A05L01	5.0	6.40	7.00	10	9.2	21.8	800

Typical Characteristics Curves

Figure 1. Peak Pulse Power Rating Curve

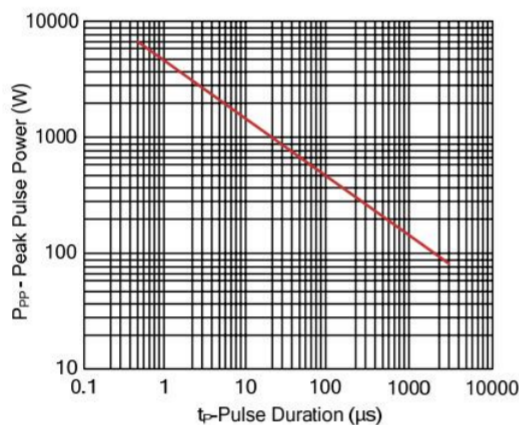


Figure 2. 10/1000μs Pulse Waveforms

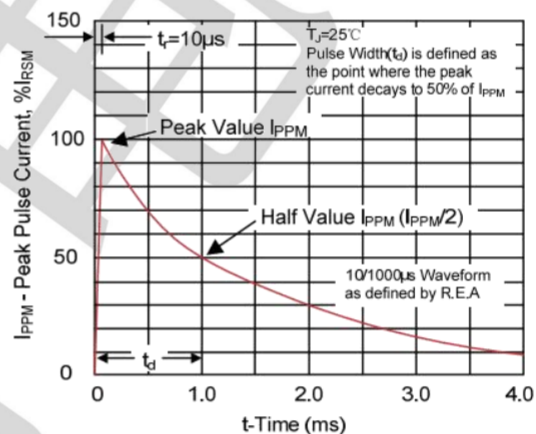


Figure 3. 8/20μs Pulse Waveforms

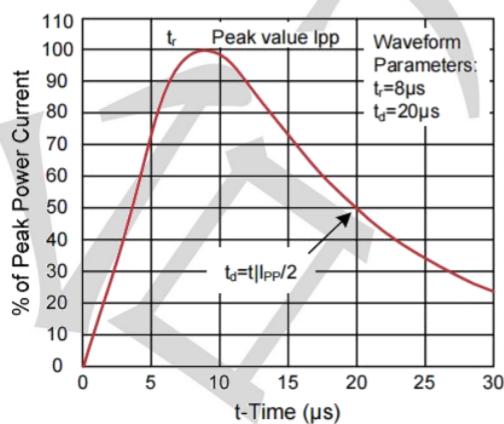
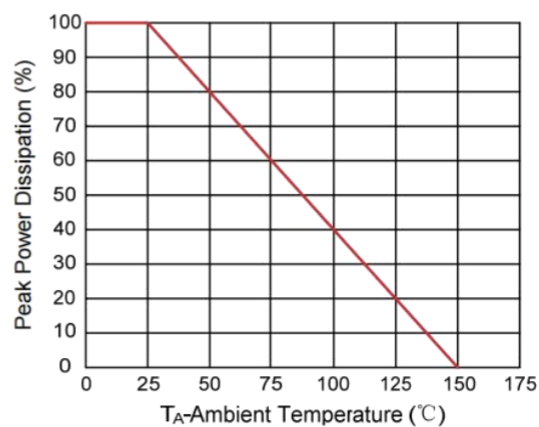


Figure 4. Power Derating Curve



Package Outline Dimensions SOD123FL

Symbol	Dimension			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.50	3.90	0.138	0.154
B	2.60	3.00	0.102	0.118
C	0.75	1.10	0.030	0.043
D	1.60	2.00	0.063	0.079
E	0.80Typ.		0.031Typ.	
F	0.90	1.40	0.035	0.055
G	0.12	0.22	0.005	0.009