

Features

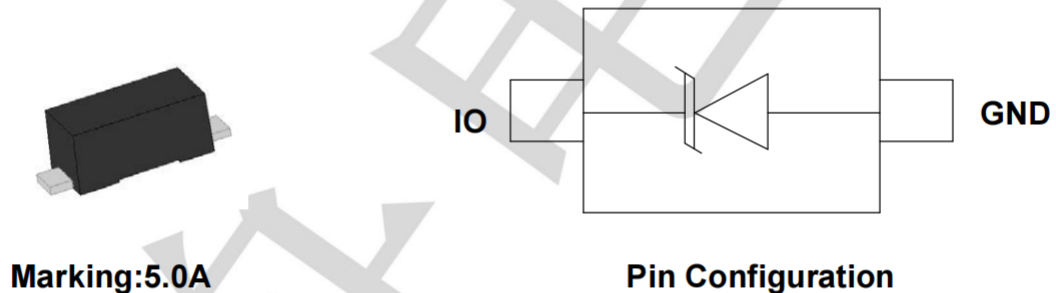
- Peak power dissipation 200W@10 x 1000 us Pluse
- Peak power dissipation of 1000W under 8/20μs waveform
- Low incremental surge resistance
- Excellent clamping capability
- Fast response time
- Low leakage current
- Halogen free and RoHS compliant

Applications

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

Mechanical Characteristics

- SOD123FL surface mount package



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 @IT		Test Current	Maximum Clamping Voltage @IPP	Peak Pulse Current	Reverse Leakage @VRWM
	VRWM(V)	VBR MIN.(V)	VBR MAX.(V)	IT(mA)	VC(V)	IPP(A)	IR(μA)
SJD12A05L01	5.0	6.40	7.00	10	9.2	21.8	800

Typical Characteristics Curves

Figure 1. Peak Pulse Power Rating Curve

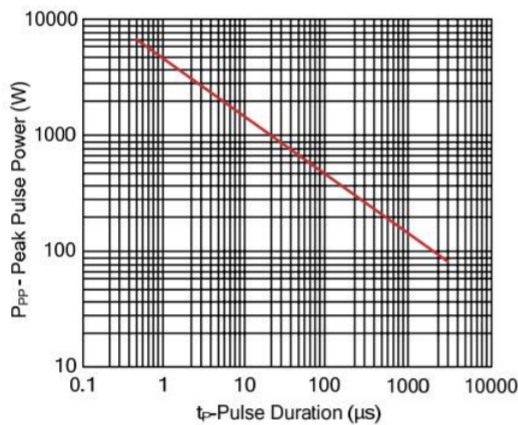


Figure 2. 10/1000μs Pulse Waveforms

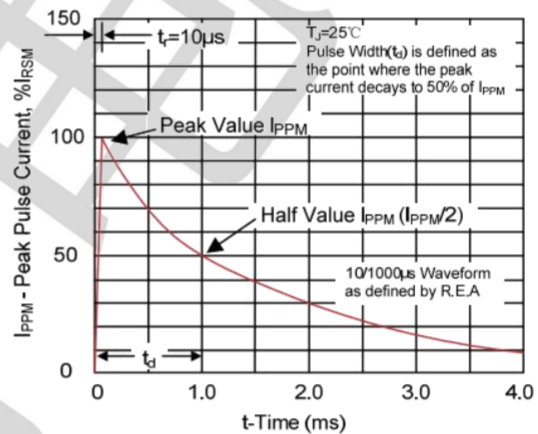


Figure 3. 8/20μs Pulse Waveforms

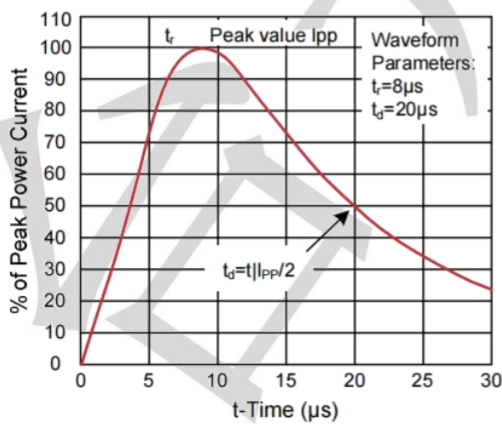
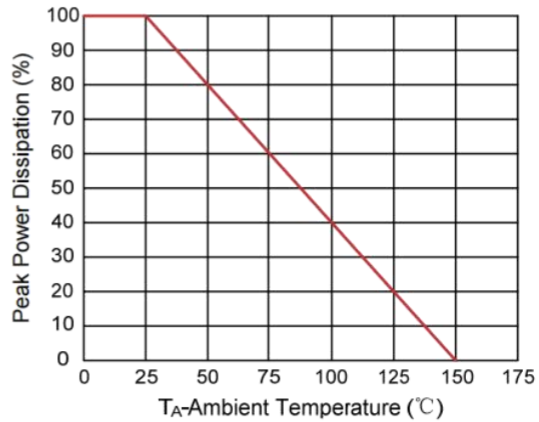


Figure 4. Power Derating Curve



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

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