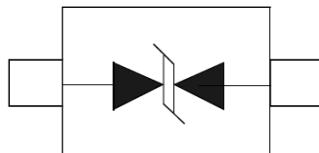




SOD-323



Features

230Watts peak pulse power($t_p=8/20\mu s$)

Low clamping voltage

Low leakage current

Glass passivated junction

Low capacitance

IEC 61000-4-2 ±30V contact ±30KV air

Halogen free and RoHS compliant

Mechanical Data

CASE: SOD-323 Molded Plastic

Molding compound flammability rating: UL 94V-0

Mounting Position: Any

Making Code & Ordering information



Ordercode	Package	Base qty	Deliverymode
PSD3L05C	SOD323	3000	Tape and reel

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P _{PP}	230	Watts
Peak Pulse Current ($t_p =8/20\mu s$)(note1)	I _{pp}	14	A
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	V _{ESD}	30 30	kV
Lead Soldering Temperature	T _L	260(10seconds)	°C
Junction Temperature	T _J	-55 to + 125	°C
Storage Temperature	T _{stg}	-55 to + 125	°C

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified).

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				5.0	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6.0			V
Reverse Leakage Current	I _R	V _{RWM} =5.0V,T=25°C			1	uA
Clamping Voltage	V _C	IPP=7A, tp=8/20V			13	V
Clamping Voltage	V _C	I _{PP} =14A, t _p =8/20μs			17	V
Junction Capacitance	C _j	V _R = 0V, f = 1MHz		1.4		pF



Ratings and Characteristic Curves

(Ratings at 25°C ambient temperature unless otherwise specified).

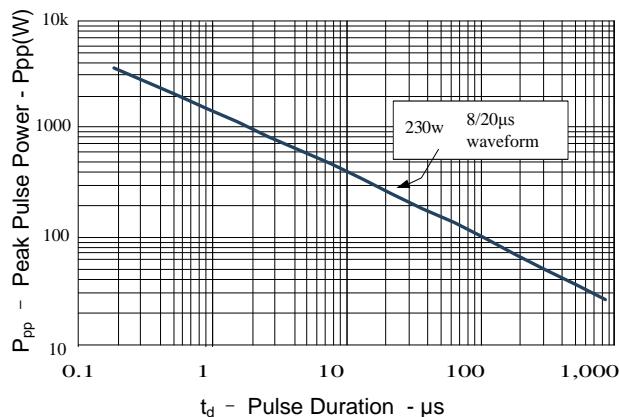


Figure 1: Peak Pulse Power vs. Pulse Time

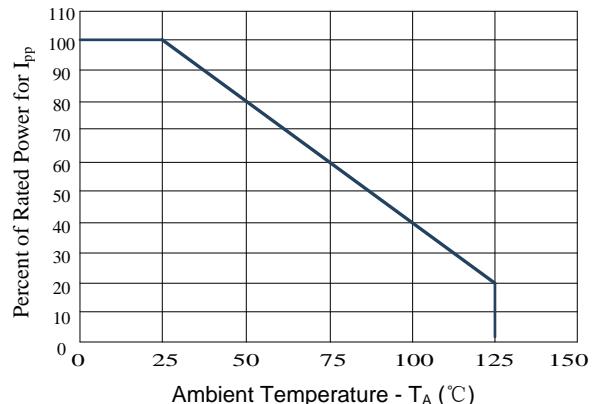


Figure 2: Power Derating Curve

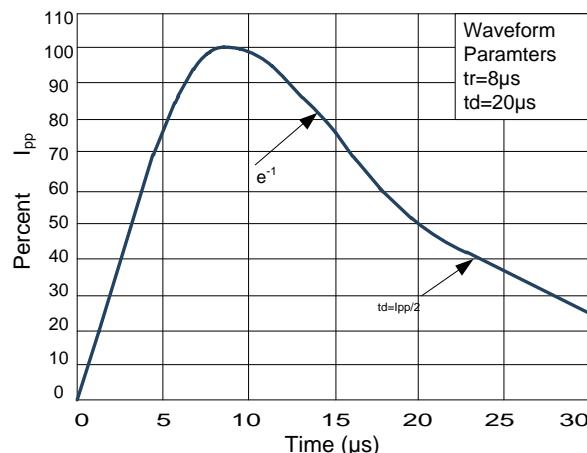


Figure 3: Pulse Waveform

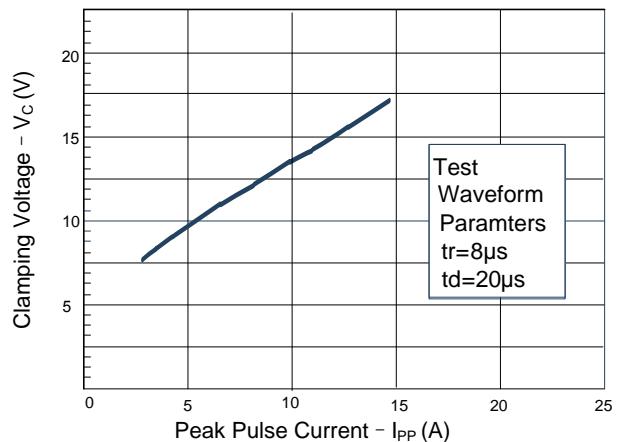
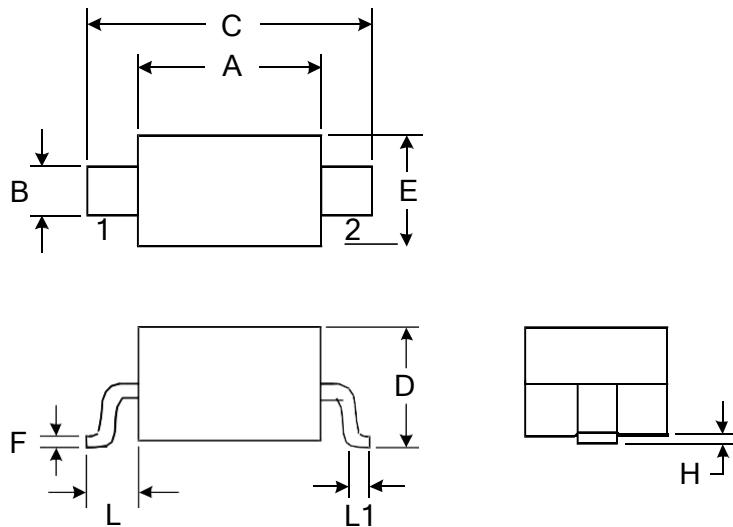


Figure 4: Clamping Voltage vs.Ipp

Package Outline Dimensions: SOD-323



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.600	1.800	0.063	0.071
B	0.250	0.350	0.010	0.014
C	2.500	2.700	0.098	0.106
D		1.000		0.039
E	1.200	1.400	0.047	0.055
F	0.080	0.150	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004