





1. Features

• 2-pin lead-less package

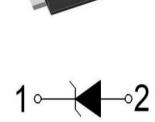
- Junction capacitance (Max value:30pF)
- Peak Pulse current (8/20µs) Max:4A
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- · Low clamping voltage
- · Low leakage current
- Working voltages:36V
- RoHS Compliant

2. Mechanical Data

- Case:Molded Plastic,SOD523.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- · Marking:M36
- · Marking:marked on body.



SOD523



3. Maximum Ratings

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

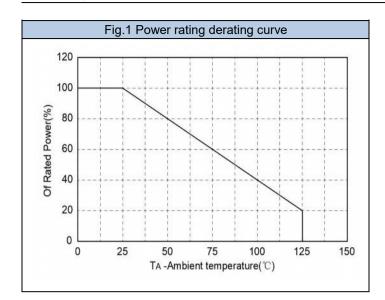
Characteristic	Symbol	Value	Unit	
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	260	W	
Peak Pulse Current (8/20µs)	I _{PP}	4	Α	
ESD per IEC 61000-4-2 (Air)	\/	±30	10.7	
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±30	KV	
Junction Temperature	T _j	-55~+125	$^{\circ}$ C	
Storage Temperature	T _{eta}	-55~+150	$^{\circ}\mathbb{C}$	

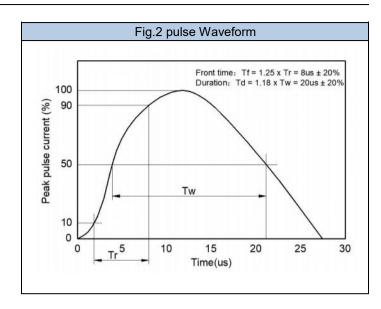
4. Electrical Characteristics (T_A =25 $^{\circ}$ C unless otherwise noted)

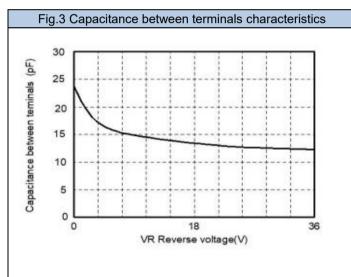
Characteristics	Symbol	Condition	Min	TYP	Max	Unit
Reverse Working Voltage	V_{RWM}		ı	ı	36	٧
Reverse Breakdown Voltage	V_{BR}	I _R = 1mA	38	-	45	V
Reverse Leakage Current	I _R	V _R =36V	-	-	0.2	uA
Clamping voltage	V _C	$I_{PP} = 1A, T_{P} = 8/20us$	-	-	50	V
Clamping voltage	V _C	$I_{PP} = 4A, T_{P} = 8/20us$	-	-	65	V
Junction capacitance	CJ	V _R =0V,f =1MHz	-	-	30	pF

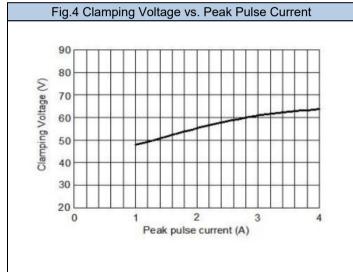


5. Rating And Characteristic Curves



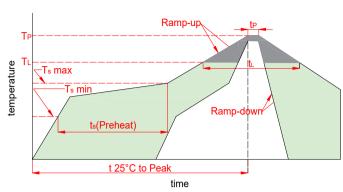






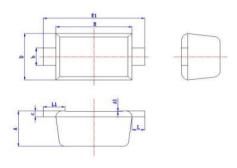


6. Soldering Parameters

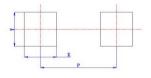


		Reflow Condition	Lead-free	
		Temp. min(T _s (min))	150℃	
	Pre Heat	Temp. max(T _s (min))	200℃	
		Time(min to max)(t _s)	60~120s	
	Aver. ramp up rate(Liquidus Temp.)(T _L)to peak		3℃/s max	
	T _S (max) to T _L -Ramp-up Rate		3℃/s max	
	Reflow	Temp.(T _L)(Liquidus)	217 ℃	
		Temp.(t _L)(Liquidus)	60~150s	
	Peak Temp.(T _P)		260 ^{+0/-5} ℃	
	Time within actual peak Temp.(t _p)		30s max	
	Ramp-dowr	Rate	6℃/s max	
	Time 25℃ t	o peak Tempe.(T _p)	8 minutes max	
	Do not exce	ed	260℃	

7. Dimensions



Mounting PAD Layout



Cumbal	Inc	hes	Millimeters		
Symbol	Min	Max	Min	Max	
Α	0.020	0.030	0.50	0.75	
A1	0.000	0.002	0.00	0.05	
D	0.027	0.037	0.68	0.95	
Е	0.043	0.053	1.10	1.35	
E1	0.059	0.071	1.50	1.80	
b	0.010	0.014	0.25	0.35	
С	0.003	0.006	0.08	0.15	
L	0.005	0.012	0.13	0.30	
L1	0.012		0.30		
Χ	0.024		0.60		
Υ	0.028		0.70		
Р	0.056		1.42		

8. Part Numbering System

Part Marking System

Cathode Band



9. Package Information

Package	Part Number	Marking Code	Quantity(pcs)
SOD523	ESDN3601D5	M36	8000



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