



1. Features

• Low forward voltage SOD-323



2. Mechanical Data

- Case:Molded Plastic,SOD-323.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- · Marking:SY
- · Marking:marked on body.



3. Maximum Ratings

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

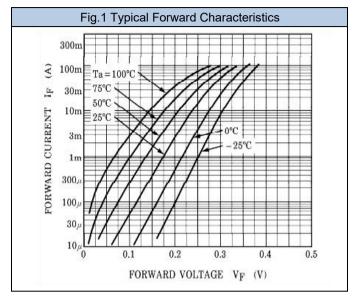
Characteristic	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	V_{RM}	15	V
Reverse Voltage	V_R	10	V
Maximum (Peak) Forward Current	I _{FM}	200	mA
Average Forward Current	Io	100	mA
Surge Forward Current (10 ms)	I _{FSM}	1	Α
Power Dissipation	P_{D}	150	mW
Operating Temperature Range	T _{opr}	-40 to+100	°C
Junction Temperature	T _J	-55 to+125	°C
Storage Temperature Range	T _{stg}	-55 to+125	°C

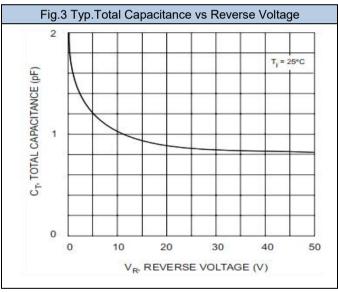
4. Electrical Characteristics (T_A =25 $^{\circ}$ C unless otherwise noted)

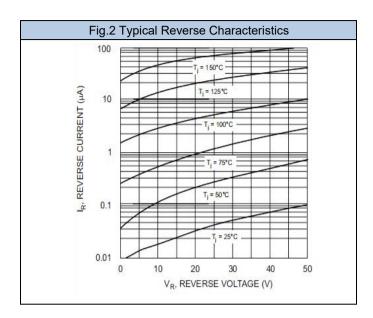
Parameters	Symbol	Cindition	Min	TYP	Max	Unit
Forward Voltage	V _F	I _F = 5mA	-	-	0.3	V
		$I_F = 100 \text{mA}$			0.5	
Reverse Current	I _R	V _R = 10V	-	-	20	μΑ
Total Capacitance	C _T	$V_R = 0 V, f = 1 MHz$	1	-	40	pF

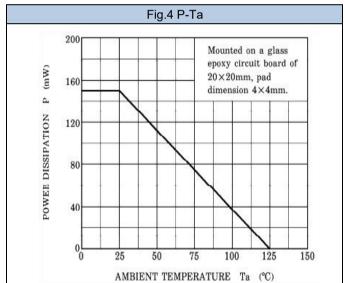


5. Rating And Characteristic Curves





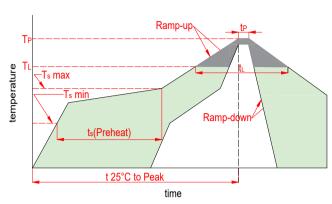








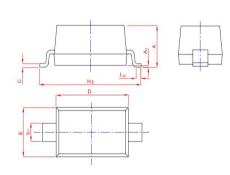
6. Soldering Parameters



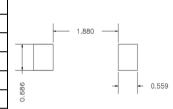
	Reflow Condition	Lead-free	
	Temp. min(T _s (min))	150℃	
Pre Heat	Temp. max(T _s (min))	200℃	
	Time(min to max)(t _s)	60~120s	
Aver. ramp	up rate(Liquidus Temp.)(T _L)to peak	3℃/s max	
T _S (max) to	T _L -Ramp-up Rate	3℃/s max	
Reflow	Temp.(T _L)(Liquidus)	217℃	
Reliow	Temp.(t _L)(Liquidus)	60~150s	
Peak Temp	.(T _P)	260 ^{+0/-5} ℃	
Time within actual peak Temp.(t _p)		30s max	
Ramp-down Rate		6℃/s max	
Time 25℃ 1	to peak Tempe.(T _p)	8 minutes max	
Do not exce	eed	260℃	

SURFACE MOUNT FAST SWITCHING DIODE

7. Dimensions

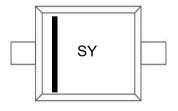


Dimensions	Inches		Millimeters		
Diffiensions	Min	Max	Min	Max	
А	0.031	0.047	0.800	1.200	
bp	0.010	0.016	0.250	0.400	
С	0.003	0.006	0.080	0.150	
D	0.063	0.071	1.600	1.800	
E	0.045	0.055	1.150	1.400	
H _E	0.091	0.110	2.300	2.800	
A1	0.000	0.004	0.010	0.100	
L _P	0.008	0.020	0.200	0.500	



Mounting PAD Layout

8. Part Marking System



9. Package Information

Package	Туре	Tape Width (mm)	Quantity(pcs)
SOD-323	1SS373	8	3000



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