















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

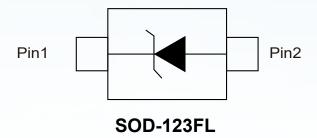
Domestic Part Number	1N4001(A1) - 1N4007(A7)
Overseas Part Number	1N4001(A1) - 1N4007(A7)
▶ Equivalent Part Number	1N4001(A1) - 1N4007(A7)





Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

1.Pinning information



2. Maximum Ratings And Electrical Characteristics

Parameter	Symbols	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current									
at T _A =65°C	I _(AV)	1							A
Peak forward surge current 8.3ms single									
half sine-wave superimposed on rated load	I _{FSM}	25					Α		
(JEDEC method)									
Maximum instantaneous forward voltage at 1.0A	V _F	1.1					V		
Maximum DC reverse current T _A =25°C		5							
at rated DC blocking voltage T _A =100°C	$ I_R$	100						- uA	
Typical junction capacitance (NOTE 1)	C _J	4					pF		
Typical thermal resistance (NOTE 2)	R _{θJA}	180					°C/W		
Junction and storage temperature range	T_J, T_{STG}	-55 to 150						°C	

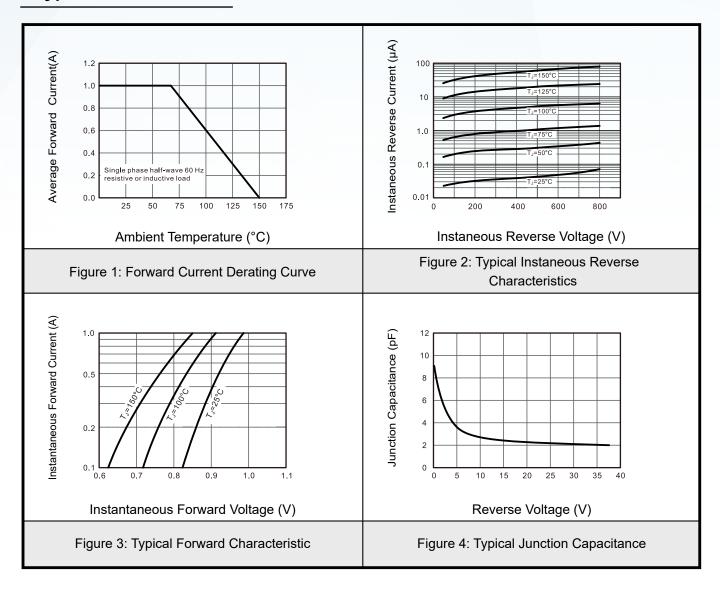
Ratings at 25 ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Notes:

- 1.Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2.Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted.

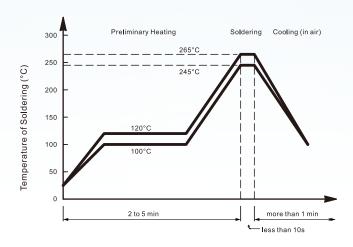


3. Typical characteristic

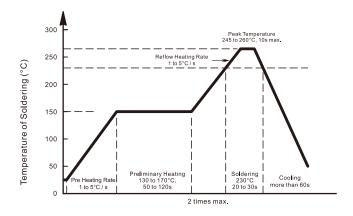




4. Recommended condition of flow soldering



5. Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters; time length of peak temperature (longer), time length of soldering (longer), thickness of solder paste (thicker)

■ Condition of hand soldering

Temperature: 370°C

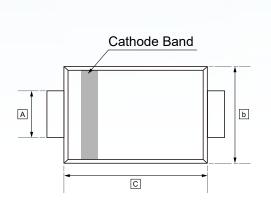
Time: 3s max.
Times: one time

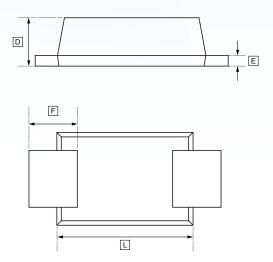
■ Remark:

Lead free solder paste (96.5Sn/3.0Ag/0.5Cu)



6.SOD123-FL Package Outline Dimensions





DIMENSIONS (mm are the original dimensions)

Symbol	A	b	C	D	E	F	L
Min	0.6	1.55	2.5	0.8	0.05	0.5	3.5
Max	1.0	1.95	2.9	1.2	0.25	1.1	3.9



7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
1N4001	A1	SOD-123FL	3000	Tape and reel
1N4002	A2	SOD-123FL	3000	Tape and reel
1N4003	A3	SOD-123FL	3000	Tape and reel
1N4004	A4	SOD-123FL	3000	Tape and reel
1N4005	A5	SOD-123FL	3000	Tape and reel
1N4006	A6	SOD-123FL	3000	Tape and reel
1N4007	A7	SOD-123FL	3000	Tape and reel



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