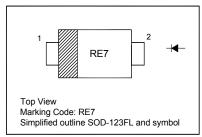
# 1N4001W THRU 1N4007W

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

#### **PINNING**

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



#### **Maximum Ratings and Electrical characteristics**

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

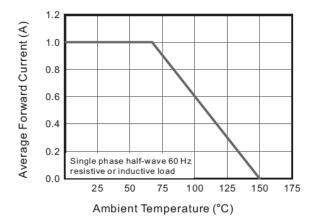
for capacitive load current derate by 20 %.									
Parameter	Symbols	1N4001W	1N4002W	1N4003W	1N4004W	1N4005W	1N4006W	1N4007W	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	>
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_a$ = 65 °C	I <sub>F(AV)</sub>	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	25						Α	
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Blocking Voltage $T_a = 125$ °C	I <sub>R</sub>	5 50						μA	
Typical Junction Capacitance 1)	C <sub>j</sub>	9						pF	
Typical Thermal Resistance 2)	$R_{\theta JA}$	120						°C/W	
Operating and Storage Temperature Range	T <sub>i</sub> , T <sub>stg</sub>	- 55 to + 150						°C	

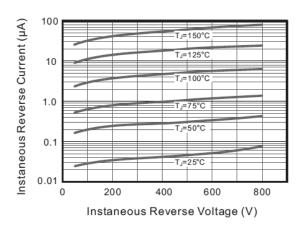
 $<sup>^{1)}</sup>$  Measured with  $I_F$  = 0.5 A,  $I_R$  = 1 A, Irr = 0.25 A.

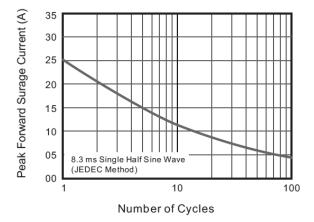


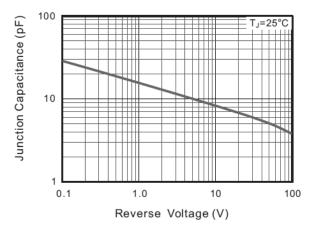
P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

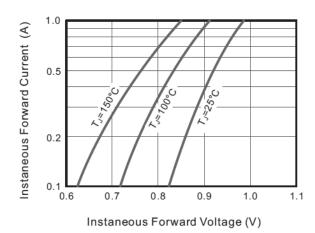
# 1N4001W THRU 1N4007W









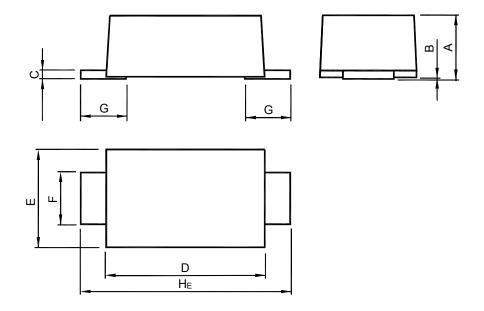




#### **PACKAGE OUTLINE**

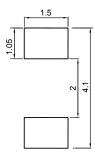
#### Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	Α	В	С	D	Е	F	G	H <sub>E</sub>
mm	1.08	0.1	0.2	2.9	1.9	1.1	0.85	3.9
mm	0.88	0	0.1	2.7	1.7	0.8	0.45	3.5

# **Recommended Soldering Footprint**



# **Packing information**

Darling	Tape Width	Pitch		Ree	el Size	D D ID I: 0 #	
Package	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000	

