

1N400X-SMD

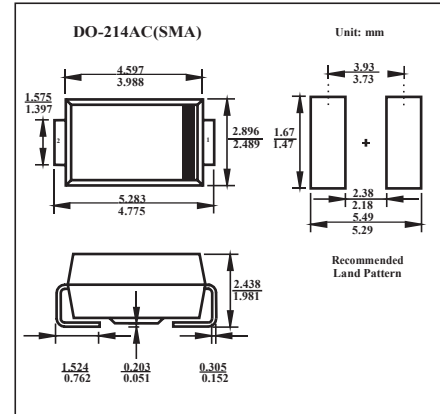
1N4007 SMD (DO-214AC)

1A Rectifier Diodes

1N4001-1N4007

■ Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Reverse Leakage Current



■ Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RMWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current	I _O	1.0							A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							A
DC Blocking Voltage T _A = 25 °C T _A = 100 °C	I _{RM}	5 50							μ A
Forward Voltage @ I _F = 1.0A	V _{FM}	1.0							V
Typical Junction Capacitance	C _J	15				8			pF
Typical Thermal Resistance Junction to Ambient	R _{JA}	100							K/W
Maximum DC Blocking Voltage Temperature	T _A	+150							°C
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to 175							°C

■ Marking

Part NO.	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007
Marking	M1	M2	M3	M4	M5	M6	M7