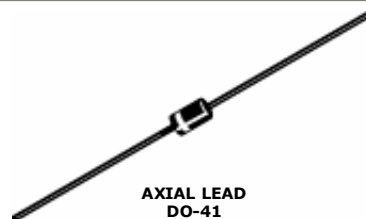


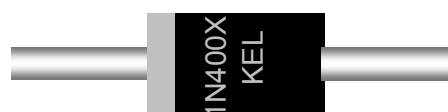
General Purpose Rectifiers Standard Recovery Plastic Silicon Rectifiers

Specification Features:

- Case: Epoxy, Molded
- Weight: 0.4 gram (approximately)
- Finish: All External Surfaces Corrosion Resistant And Terminal Leads Are Readily Solderable
- Lead And Mounting Surface Temperature For Soldering Purposed:
260°C Max. For 10 Seconds 1.16 Inch From Case
- RoHS Compliant or Halogen Free Option
- Low Reverse Leakage, High Forward Surge Capability
- Cathode Indicated By Polarity Band



DEVICE MARKING DIAGRAM



	RoHS	Halogen Free
Device	1N400X	1N400XHF
Marking	1N400X KEL	400XHF KEL

1N400X = Device Part Number
x = 1, 2, 3, 4, 5, 6 or 7

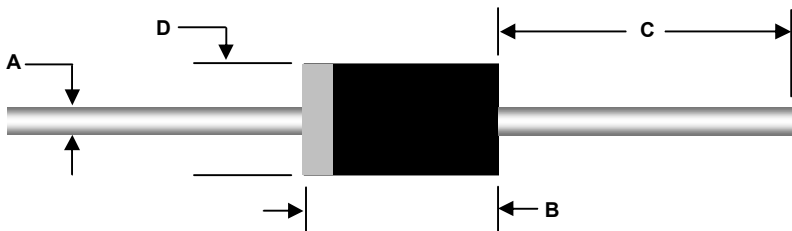
Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum DC Blocking Voltage	V_R	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectifier Current. (0.375" Lead Length @ $T_A=75^\circ\text{C}$)	$I_{F(AV)}$	1.0							A
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	I_{FSM}	30							A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65 to +175							°C
Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	65							°C/W

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Reverse Current @ V_R	I_R	5							uA
Forward Voltage @ 1A	V_F	1.1							V
Total Capacitance @ $V_R=4V, f=1\text{MHz}$	C_T	15							pF

Package Outline

Package	Case Outline				
DO-41					
	DIM	DO-41			
		Millimeters		Inches	
		Min	Max	Min	Max
	A	0.70	0.86	0.028	0.034
	B	4.20	5.20	0.166	0.205
	C	25.40	---	1.000	---
	D	2.00	2.70	0.080	0.107



NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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