KEL®

Preliminary Data Sheet

General Purpose Rectifiers
Standard Recovery Plastic Silicon Rectifiers

AXIAL LEAD
DO-41

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℃ Max. For 10 Seconds 1.16 Inch From Case
- RoHS Compliant
- Low Reverse Leakage, High Forward Surge Capability
- Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM

1N4001 : Device Name 1N4001~1N4007
KEL : KEL Logo

Absolute Maximum Ratings T_A = 25°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℃)	$I_{F(AV)}$	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

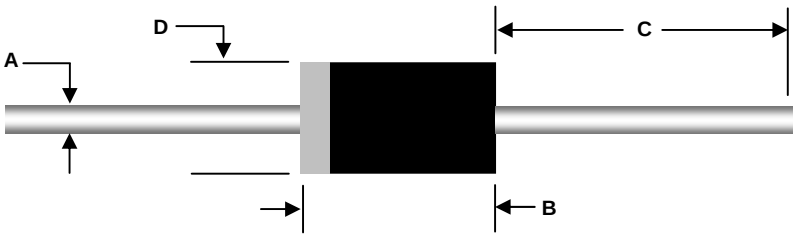
Electrical Characteristics T_A = 25°C unless otherwise noted

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 @VR=4V, f=1MHz	C_T	15							pF

Package Outline

Package	Case Outline

DO-41



DIM	DO-41			
	Millimeters		Inches	
	Min	Max	Min	Max
A	---	0.86	---	0.034
B	---	5.20	---	0.205
C	25.40	---	1.000	---
D	---	2.71	---	0.107

This datasheet presents technical data of Tak Cheong's Silicon Rectifier Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website http://www.takcheong.com.

Although information in this datasheet has been carefully checked, no responsibility for the inaccuracies can be assumed by Tak Cheong. Please consult your nearest Tak Cheong's sales office for further assistance.

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