KEL®

Preliminary Data Sheet

1N5391 THRU 1N5399

1.5AMP. Standard Silicon Rectifiers

AXIAL LEAD
DO-15

VOLTAGE:50 TO 1000V **CURRENT:1.5A**

Specification Features:

- Case: Epoxy, Molded
- Weight: 0.4Gram (Approximately)
- High current capability, Low leakage current
- High surge current capability
- 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
  Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM

1N53XX : Device Name 1N5391~1N5399
KEL : KEL Logo

Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Parameter	Symbol	1N 5391	1N 5392	1N 5393	1N 5395	1N 5397	1N 5398	1N 5399	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℃)	$I_{F(AV)}$	1.5							A
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	I_{FSM}	50							A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65 to +150							°C
Thermal Resistance (Note 1) (Junction to Ambient)	$R_{\theta JA}$	50							°C/W

Electrical Characteristics

T_A = 25°C unless otherwise noted

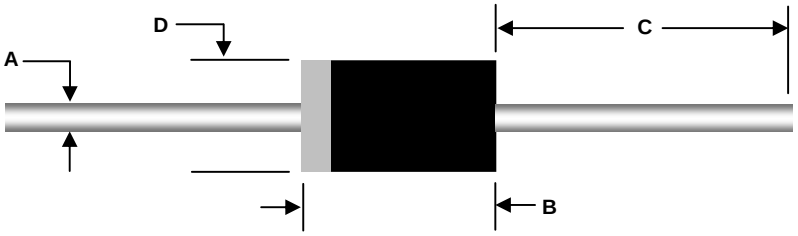
Parameter	Symbol	1N 5391	1N 5392	1N 5393	1N 5395	1N 5397	1N 5398	1N 5399	Units
Reverse Current @V_R	I_R	5							uA
Forward Voltage @1.5A	V_F	1.1							V
Total Capacitance (Note 2) @VR=4V, f=1MHz	C_T	25							pF

NOTE: (1) Thermal resistance from junction to ambient at 0.375" lead length, vertical P.C. board mounted
(2) Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

Package Outline

Package	Case Outline

DO-15



DIM	DO-15			
	Millimeters		Inches	
	Min	Max	Min	Max
A	0.70	0.90	0.028	0.034
B	5.80	7.60	0.230	0.300
C	25.40	---	1.000	---
D	2.60	3.60	0.104	0.140