

Features

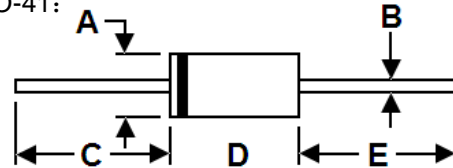
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

A-405/DO-41:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.0	2.7	0.078	0.107
B(A-405)	0.53	0.64	0.020	0.025
B(DO-41)	0.7	0.9	0.027	0.035
C	25.4	-	1.0	-
D	4.2	5.2	0.165	0.205
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	1N 4933(L)	1N 4934(L)	1N 4935(L)	1N 4936(L)	1N 4937(L)	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current .375" (9.5mm)Lead Length @ $T_A=55^\circ\text{C}$	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30					A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.2					V
Maximum D.C Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	5.0 100					μA
Maximum Reverse Recovery Time(Note1)	T_{rr}	150					nS
Typical Junction Capacitance(Note2)	C_J	15					pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +125 / -55 to +150					$^\circ\text{C}$

Note:1、 Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$. 2、 Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

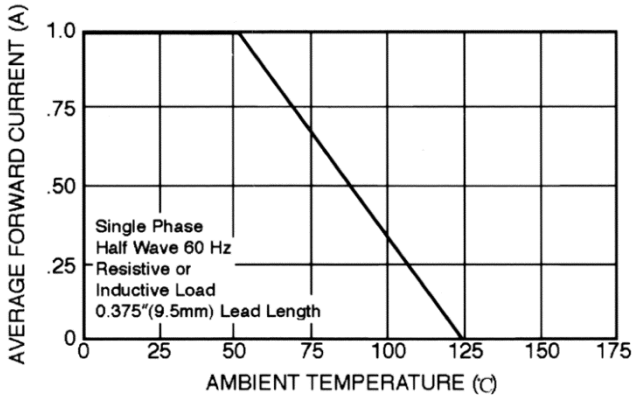


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

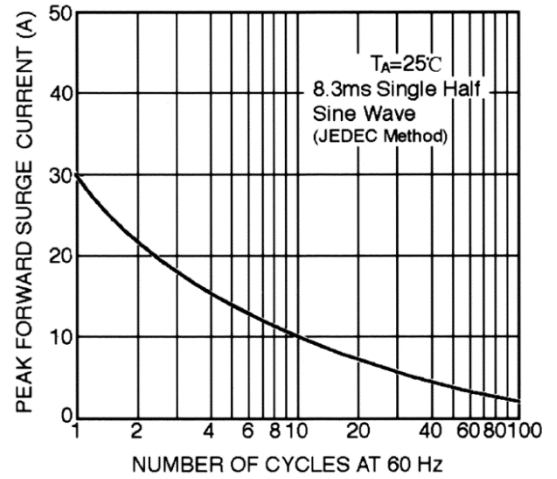


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

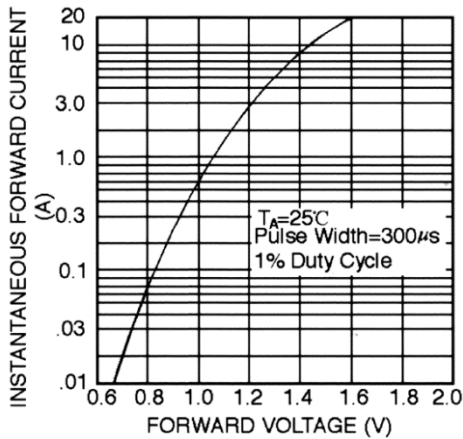


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

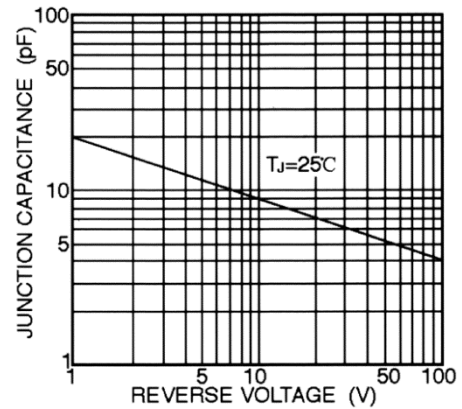
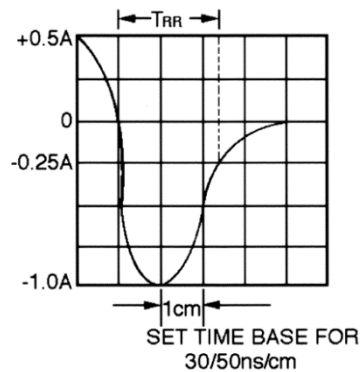
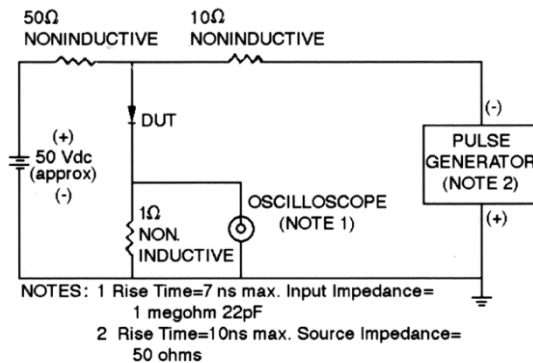


FIG. 5 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS





1N4933(L) THRU 1N4937(L)

1.0 Amp. Fast Recovery Rectifiers

Ordering Information

Part No.	Package	Packing
1N4933(L)~1N4937(L)	A-405/DO-41	3K/AMMO box
1N4933(L)~1N4937(L)	A-405/DO-41	5K/AMMO box
1N4933(L)~1N4937(L)	A-405/DO-41	5K/13" Paper reel
1N4933(L)~1N4937(L)	A-405/DO-41	1K/Bulk packing