## DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

THRU

1N4933

1N4937

## TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 600 Volts CURRENT - 1.0 Ampere **FEATURES** \* Low cost \* Low leakage 1 \* Low forward voltage drop \* High current capability DO-41 MECHANICAL DATA \* Case: Molded plastic .034 (0.9) .028 (0.7) DIA. \* Epoxy: UL 94V-0 rate flame retardant 1.0 (25.4) \* Lead: MIL-STD-202E, Method 208 guaranteed MIN \* Mounting position: Any \* Weight: 0.33 gram .205 (5.2) .107 (2.7) DIA. .166 (4.2) .080 (2.0) 1.0 (25.4) MIN. MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings 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%. Dimensions in inches and (millimeters) SYMBOL 1N4933 1N4934 1N4935 1N4936 1N4937 UNITS

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Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	1.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30					Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0					uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375*(9.5mm) lead length at T L = 55°C	IR IR	100					uAmps
Maximum Reverse Recovery Time (Note 1)	trr	150 250			nSec		
Typical Junction Capacitance (Note 2)	CJ	15					pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150					٥C

NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

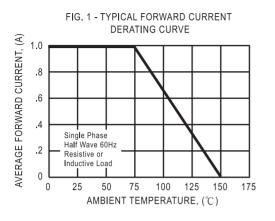


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

