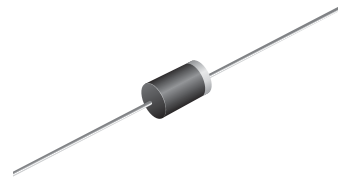


Plastic Fast Recovery Rectifier

1N4933 THRU 1N4937

Voltage Range 50 to 600 V

Current 1.0 Ampere

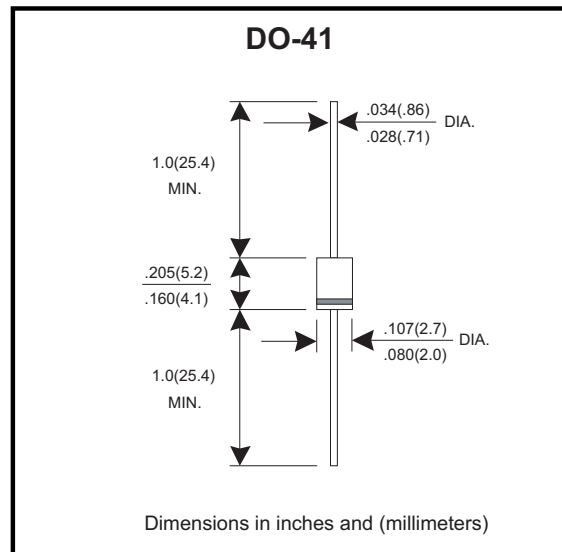


Features

- Fast switching for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

Mechanical Data

- Case: Molded plastic DO-41
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Polarity: Color band denotes cathode
- Mounting position: Any
- Weight: 0.036gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

	SYMBOL	1N4933	1N4934	1N4935	1N4936	1N4937	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 DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current T _L =55°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 @ 1.0 A	V _F	1.2					V
Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =100°C	I _R	5.0 250					uA uA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	130					nS
Typical junction Capacitance (Note 2)	C _J	15					pF
Typical Thermal Resistance (Note 3)	R _{θJA}	75					°CW
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to + 125					°C

NOTES : (1) Reverse recovery test conditions I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.
 (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.
 (3) Thermal Resistance junction to lead.

FIG.1 - FORWARD CURRENT DERATING CURVE

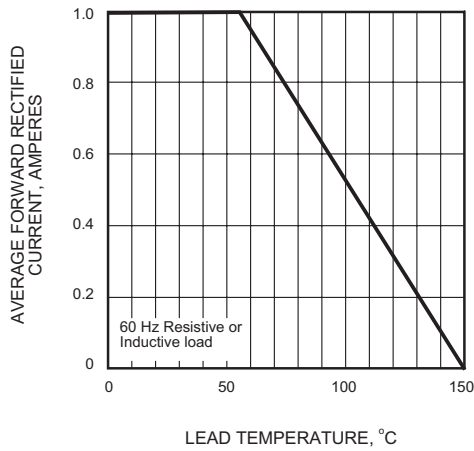


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

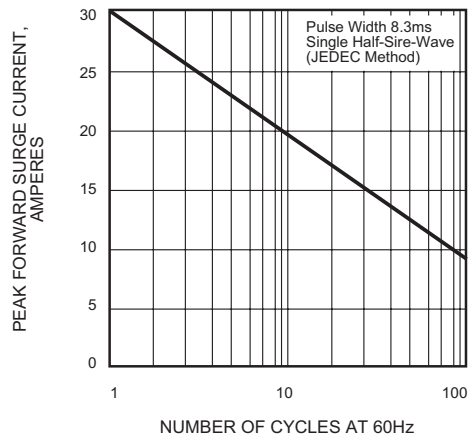


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

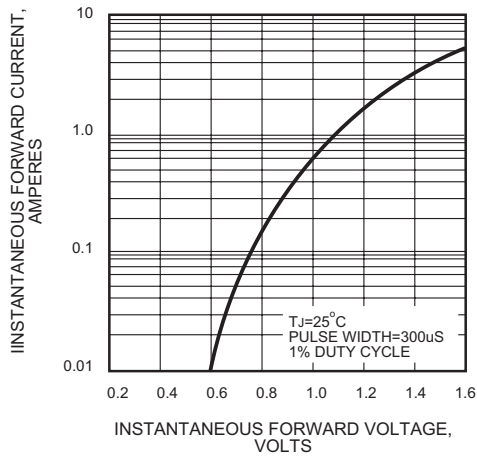


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

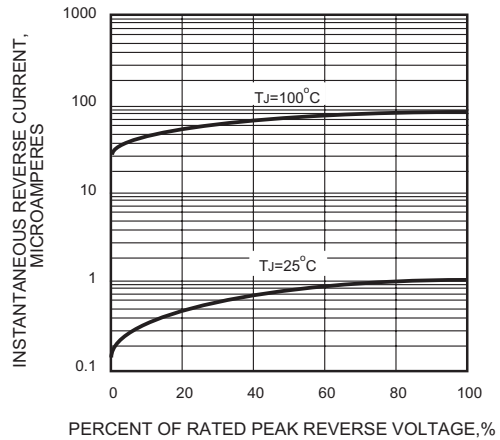
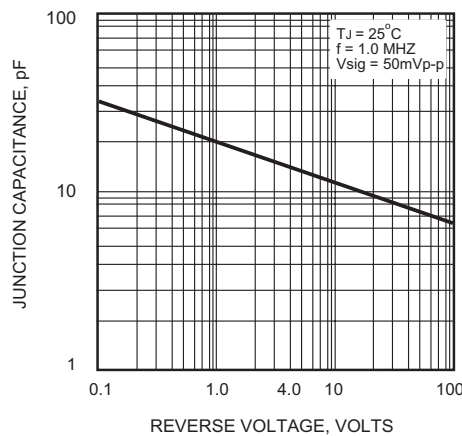


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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