

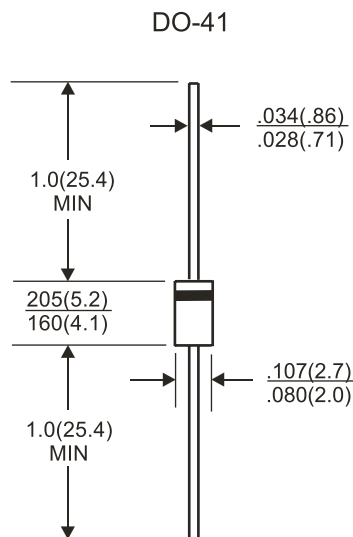


Features

- Diffused junction
- Fast switching for high efficiency
- High current capability and low Forward Voltage Drop
- Surge overload rating to 30A peak
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

Mechanical Data

Case: Molded plastic
Terminals: Solder plated solderable per MIL-STD-202,
Method 208
Polarity: Cathode band
Mounting Position: Any
Weight: 0.3grams (approx)



All dimensions inches and (millimeters)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	1N4933	1N4934	1N4935	1N4936	1N4937	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	v
Maximum DC blocking voltage	VDC	50	100	200	400	600	v
Maximum average forward rectified output current at TA=75°C	IF(AV)	1.0					A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0					A
Maximum reverse recovery time TJ=25°C	Trr	200					nS
Typical thermal resistance per element	ReJA	50					°C/W
Typical junction capacitance per element	Cj	15					pF
Operating junction and storage temperature range	TJ, TSTG	-65 to + 150					°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	1N4933	1N4934	1N4935	1N4936	1N4937	Unit
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.3					V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	5.0 50.0					μA

Rating and Characteristic Curves ($T_A=25^{\circ}\text{C}$ Unless otherwise noted) 1N4933 thru 1N4937

Fig. 1 Reverse Recovery Time and Test Circuit Diagram

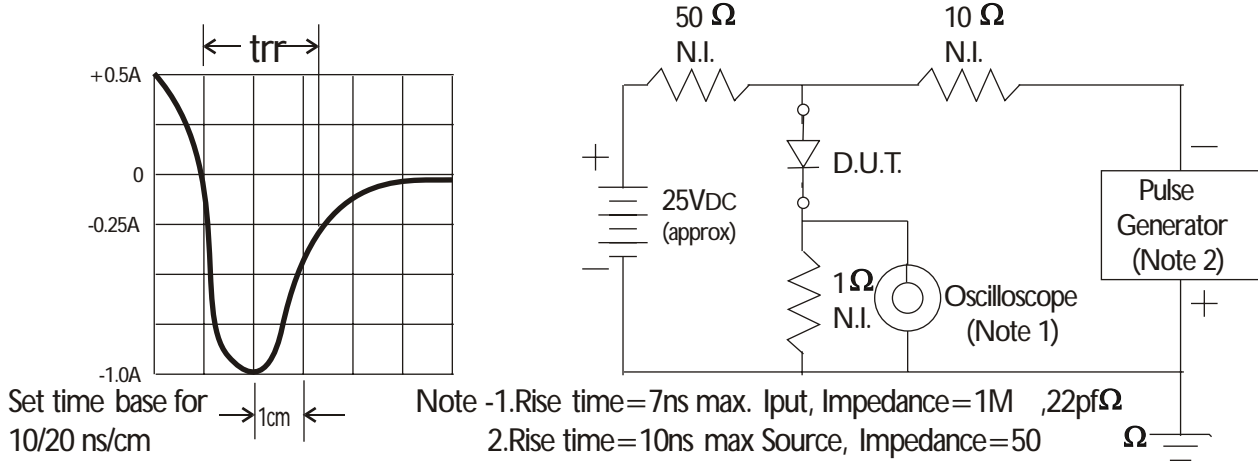


Fig. 2 Derating Curve for Output Rectified Current

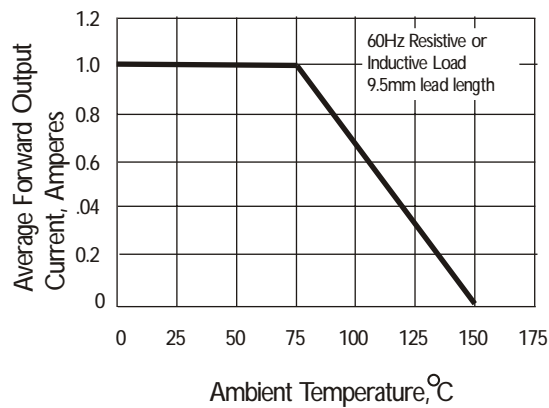


Fig. 3 Peak Forward Surge Current

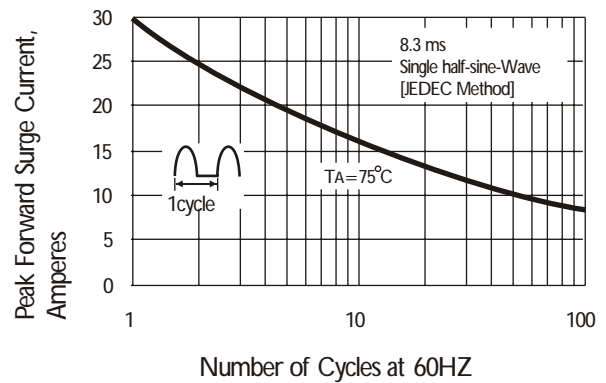


Fig. 4 Typical Instantaneous Forward Characteristics

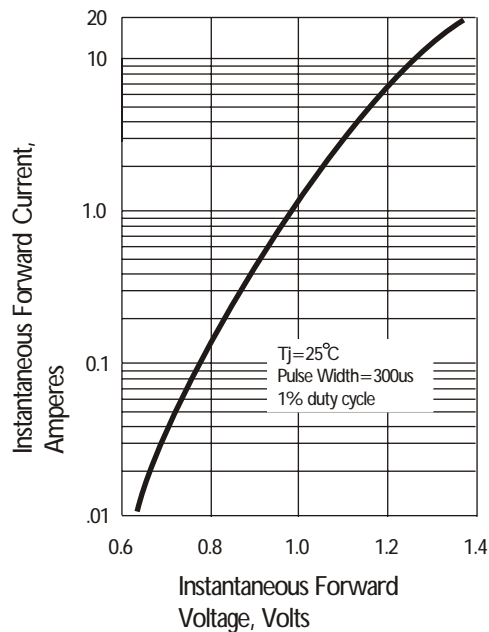


Fig. 5 Typical Junction Capacitance

