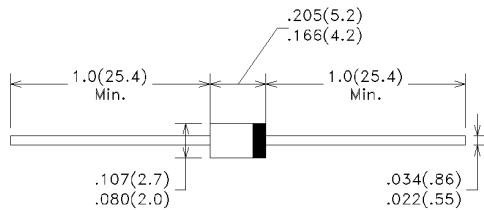


Package Outline Dimensions in mm (inches)

DO-41



Reverse Voltage - 600 V

Forward Current - 1.0 A

Features

- High recovery voltage
- Low forward voltage drop
- Fast Recovery times for high efficiency
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in switching power Supplies.

Mechanical Data

- Case:DO-41 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

Parameter	Symbol	1N4937	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Maximum average forward rectified current	I _{F(AV)}	1.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30.0	A
Storage temperature range	T _S	-55 ~ 150	°C
Operating Junction temperature range	T _J	-55 ~ 150	°C

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Parameter	Test Conditions	Symbol	1N4937	Unit
Maximum forward voltage	I _F =1.0A	V _F	1.30	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5.0	μA
	TA=100°C		100	
Maximum Reverse Recovery Time	RG1	T _{rr}	250	ns

Fig.1 Forward Current Derating Curve

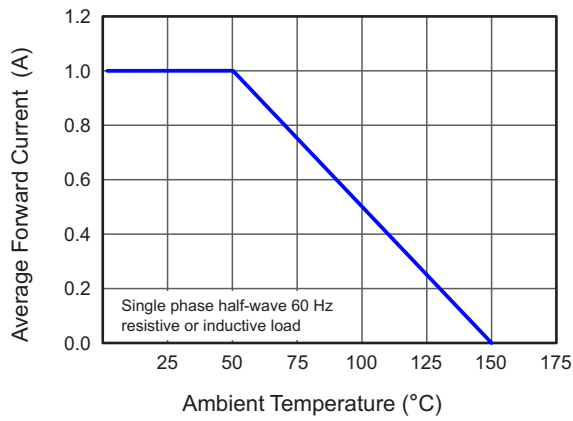


Fig.2 Typical Reverse Characteristics

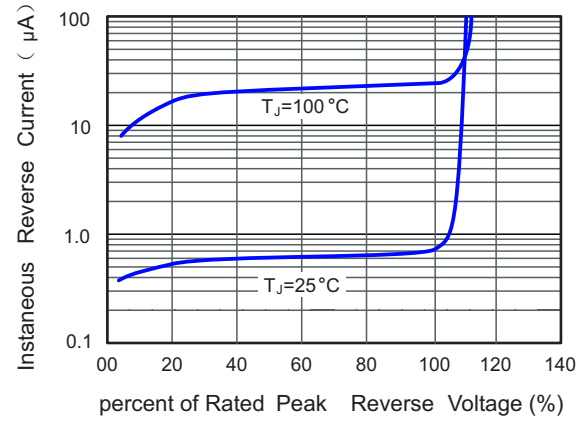


Fig.3 Typical Instantaneous Forward Characteristics

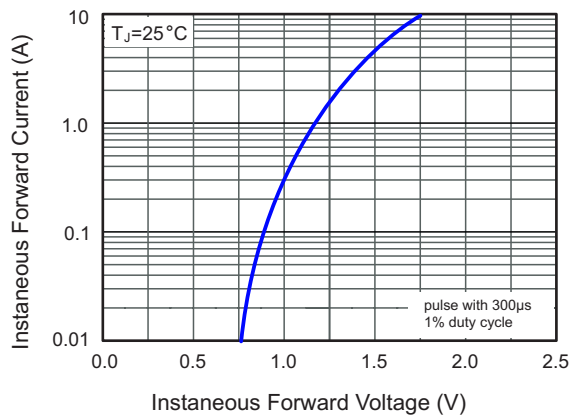


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

