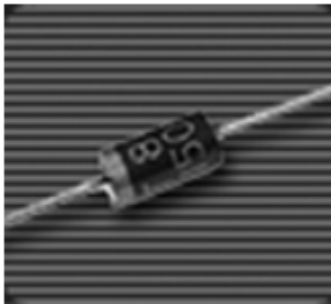


**Glass Passivated Fast Recovery Rectifiers**
**DO-41/A405**

**Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020  
LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874


**Primary characteristics**

$I_{F(AV)}$	1A
$V_{RRM}$	50V to 600V
$I_{FSM}$	30A
$I_{RM}$	5 $\mu$ A
$V_{FM}$ at $I_F=1$ A	1.2V
$T_J$ max.	150 °C

**Applications**

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

**Mechanical data**

- DO-41/A405
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque: 10cm $\cdot$ kg(8.8 inches $\cdot$ lbs)max.
- Recommended Torque: 5.7 cm $\cdot$ kg(5 inches $\cdot$ lbs)

**Maximum rating (Ta=25°C unless otherwise noted)**

Parameter	Sym	DO-41/A405					Unit
		1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	
Max. repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	V
Max. RMS reverse voltage	$V_{RMS}$	35	70	140	280	420	V
Max. DC blocking voltage	$V_{DC}$	50	100	200	400	600	V
Max. average forward current	$I_{F(AV)}$	1					A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	30					A
Max. instantaneous forward voltage drop per diode	$V_{FM}$	1.2 (1A)					V
Max. instantaneous reverse current at rated DC blocking voltage	$I_{RM}$	5					$\mu$ A
		100					$\mu$ A
Operating junction temperature	$T_J$	-55 ~ +150					°C
Storage temperature	$T_{STG}$	-55 ~ +150					°C
Maximum reverse recovery time (Note 3)	$t_{rr}$	200					nS
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55					oC/W
Typical junction capacitance (Note 2)	$C_J$	15					pF

**Notes:**

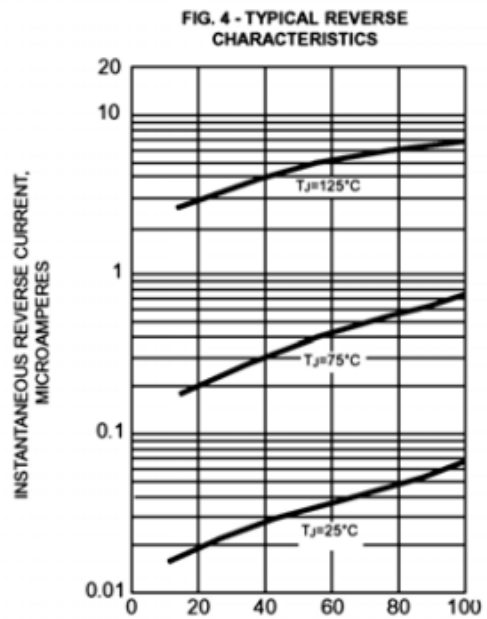
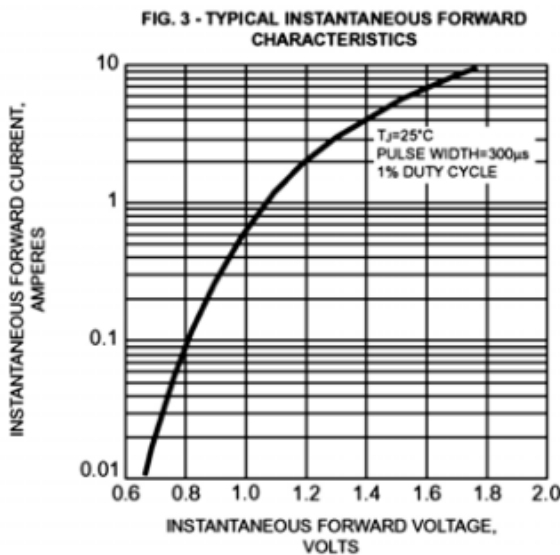
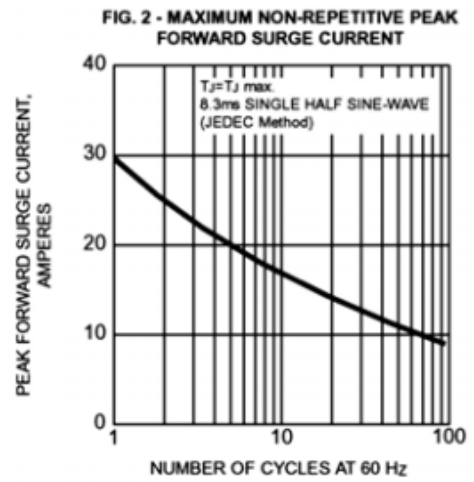
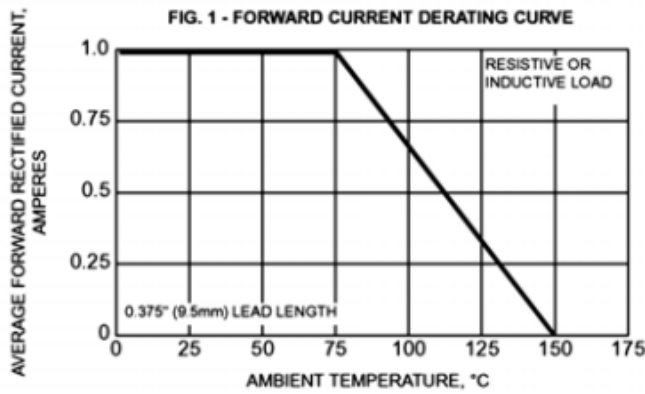
1. The thermal resistance from junction to ambient, case or mount, mounted on P.C.B with 5x5mm copper pads, 2 OZ, FR4 PCB
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C
3. Reverse recovery test conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{rr}=0.25A$



Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
1N4937G				

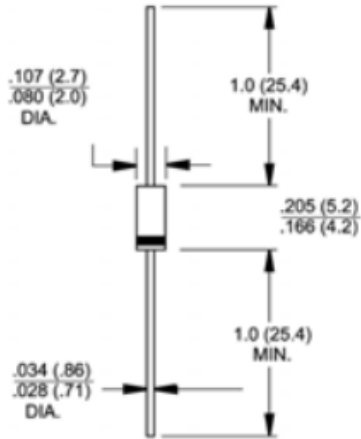
Typical characteristics



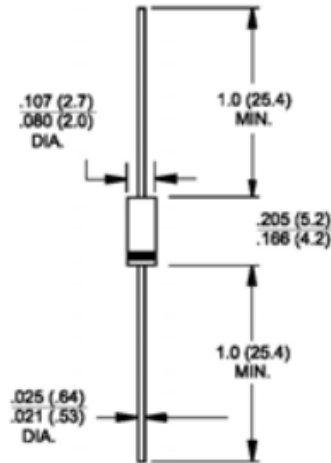


Package outline dimensions

DO-204AL (DO-41)



A-405



Dimensions in inches and (millimeters)      Dimensions in inches and (millimeters)

**Note:** Lead diameter is 0.025(0.64)/0.021(0.53) for part numbers from 1N4933SG thru 1N4937SG

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