

Glass Passivated Fast Recovery Rectifier

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

Applications

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

Mechanical data

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

-55 ~ +150

-55 ~ +150

12

150

250

500

V_{RRM} 50V to 1000V I_{FSM} 30A 5uA I_{RM} V_{FM} at I_F=1 A 1.3V T_J max. 150 °C

1A

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

Primary characteristics

 $I_{F(AV)}$

		DO-41/A405							
Parameter		Sym	FR	FR	FR	FR	FR	FR	
			101G	102G	103G	104G	105G	106G	
Max. repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	
Max. RMS reverse voltage		V _{RMS}	35	70	140	280	420	560	
Max. DC blocking voltage		V _{DC}	50	100	200	400	600	800	
Max. average forward current		I _{F(AV)}	1						
Non-repetitive peak forward surge current									
8.3ms single half-sine-wave		IFSM	30						
Max. instantaneous forward voltage drop per diode		V _{FM}	1.3 (1A)						
Max. instantaneous reverse current	Ta=25 °C					5			
at rated DC blocking voltage	Ta=125 °C	I _{RM}	100						

Notes:

2 Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C

 T_{J}

Tstg

trr

CJ

Operating junction temperature

Maximum reverse recovery time (Note 1)

Typical junction capacitance (Note 2)

Storage temperature

Unit

V

V

٧ Α

Α

V

μΑ

٥С

٥С

nS

рF

FR

107G

1000

700

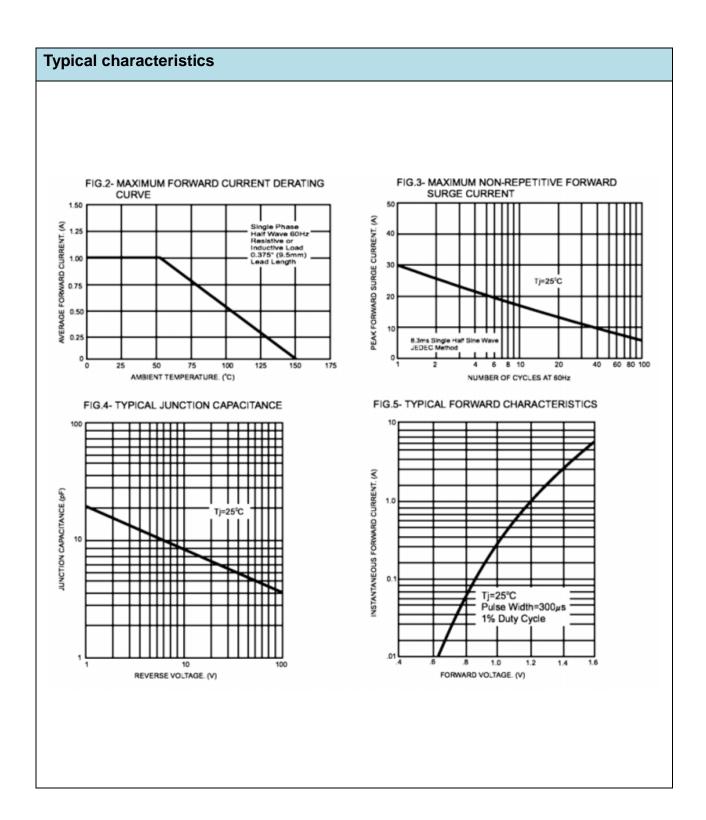
1000

¹ Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25



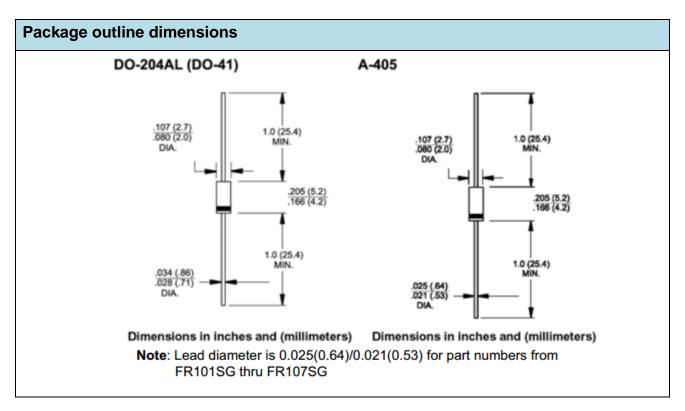
Glass Passivated Fast Recovery Rectifier

Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
FR107G							





Glass Passivated Fast Recovery Rectifier



Golden SEMI Inc. - Legal Notice

Disclaimer – All data and specifications are subject to changes without notice

GOLDEN SEMI Inc, it's affiliates, agents, distributors and employees neither accept nor assume any responsibility for errors or inaccuracies. All data and specifications are intended for information and provide a product description only. Electrical and mechanical parameters listed in GOLDEN SEMI data sheets and specifications will vary dependent upon application and environmental conditions. GOLDEN SEMI is not liable for any damages occurred or resulting from any circuit, product or end-use application for which it's products are used. GOLDEN SEMI products are not intended or designed for use in life saving or sustaining apparatus and purchase of any GOLDEN SEMI products automatically indemnifies GOLDEN SEMI against any claims or damages resulting from application malfunction