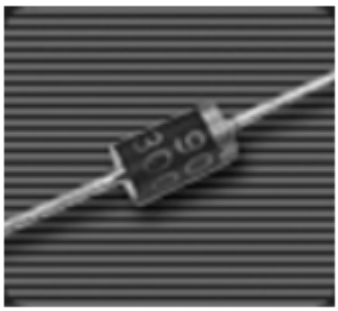
UF5400 thru UF5408.

Glass Passivated High Efficient Rectifier

DO-201AD



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

$I_{F(AV)}$	3A
V_{RRM}	50V to 1000V
I_{FSM}	150A
I_{RM}	10uA
V_{FM} at I_F=3A	1/1.7V
T_J max.	150 °C

Applications

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

Mechanical data

- DO-201AD
- 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)

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

Parameter		Sym	DO-201AD									Unit
			UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	
Max. repetitive peak reverse voltage		V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Max. RMS reverse voltage		V_{RMS}	35	70	140	210	280	350	420	560	700	V
Max. DC blocking voltage		V_{DC}	50	100	200	300	400	500	600	800	1000	V
Max. average forward current		$I_{F(AV)}$	3									A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I_{FSM}	150									A
Max. instantaneous forward voltage drop per diode		V_{FM}	1					1.7				V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C	I_{RM}	10									μA
	Ta=125 °C		75					200				
Operating junction temperature		T_J	-55 ~ +150									°C
Storage temperature		T_{STG}	-55 ~ +150									°C
Maximum reverse recovery time (Note1)		trr	50					75				nS
Typical thermal resistance (Note2)		$R_{\Theta J-A}$	20									°C/W
		$R_{\Theta J-L}$	8.5									

Notes:

1 Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

2. Thermal resistance from junction to lead and from junction to ambient with 0.375" (9.5mm) lead length, both leads attached to heatsink

Ordering information (Example)				
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
UF5408				

Typical characteristics

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

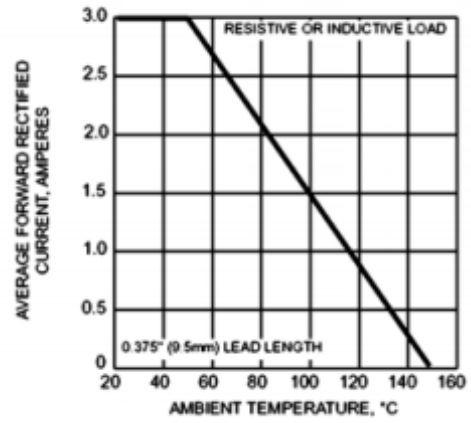


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

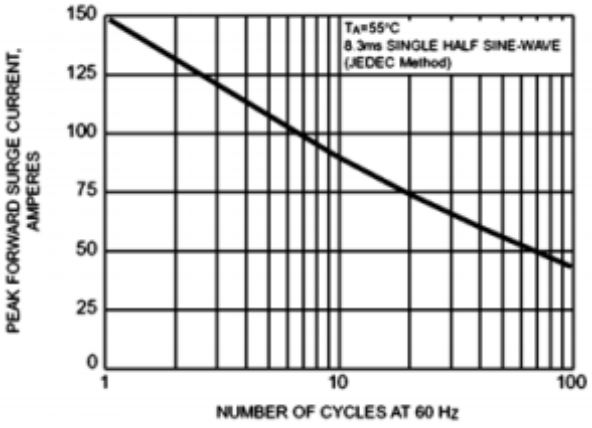


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

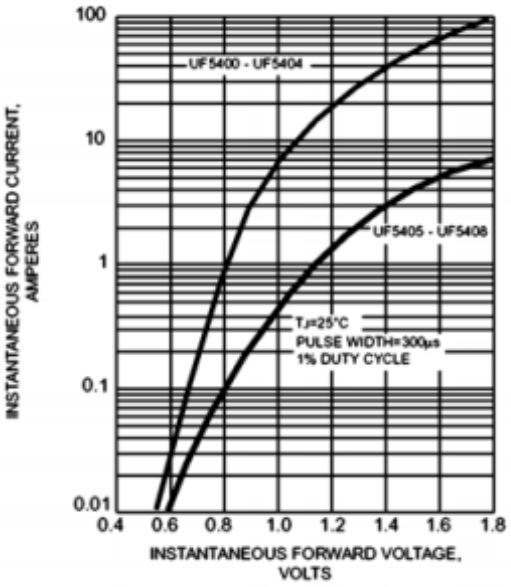
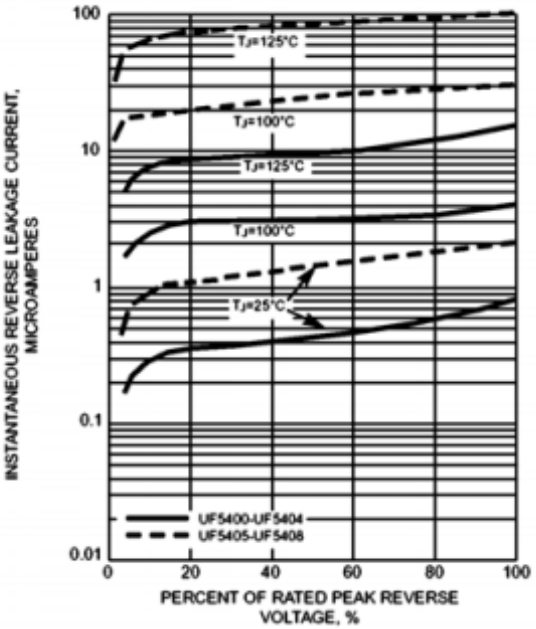
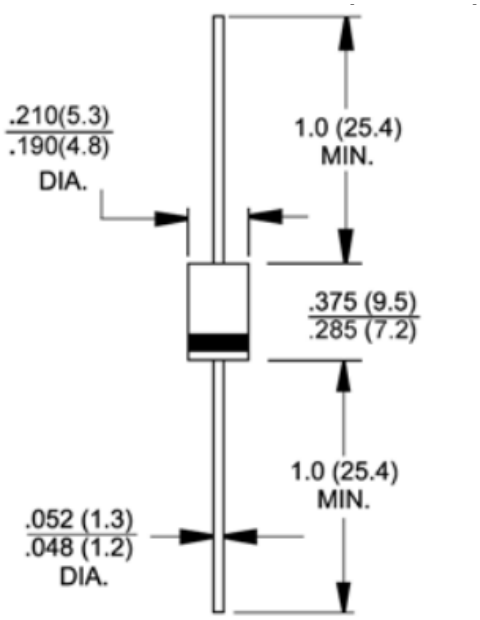


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Package outline dimensions



Dimensions in inches and (millimeters)

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