

Glass Passivated High Efficient Rectifier

DO-41(DO-204AL)



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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 1000V						
I _{FSM}	30A						
I _{RM}	10uA						
V _{FM} at I _F =1A	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-41(DO-204AL)
- 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)

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			DO-41(DO-204AL)							
Parameter		Sym			Unit					
Max. repetitive peak reverse voltage			50	100	200	400	600	800	1000	V
Max. RMS reverse voltage			35	70	140	280	420	560	700	V
Max. DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	V
Max. average forward current			1						Α	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I _{FSM}	30					А		
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 Ta=125 °C	I _{RM}	10 50					μA		
Operating junction temperature			-55 ~ +150						°С	
Storage temperature			-55 ~ + 150					°C		
Maximum reverse recovery time (Note1)		trr	50 75				nS			
Typical thermal resistance (Note2)		R J-A	60						°C/W	

Notes:

- 1 Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length

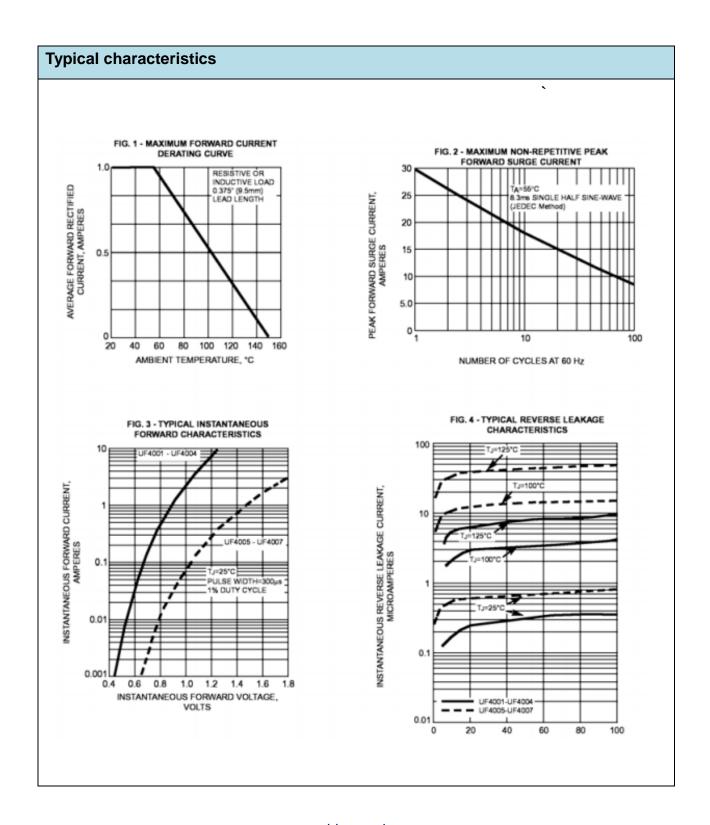
R _{J-L}

P2/3



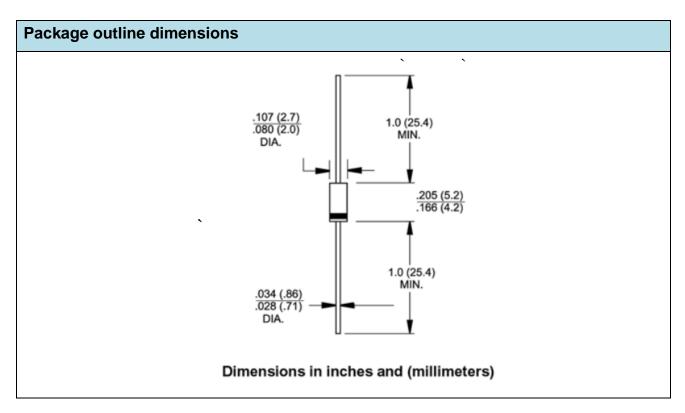
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Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
UF4007							





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