

ЪВ

Glass Passivated Fast Recovery Rectifiers

<u>R-1</u>	
A.C.	

Primary characteristics						
I _{F(AV)}	1A					
V _{RRM}	50V to 1000V					
I _{FSM}	30A					
I _{RM}	5uA					
V _{FM} at I _F =1 A	1.3V					
T _J max.	150 °C					

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 • R-1

- 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			R-1							
		Sym	1F1G	1F2G	1F3G	1F4G	1F5G	1F6G	1F7G	Unit
Max. repetitive peak reverse voltage		VRRM	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage		VRMS	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		IF(AV)	1						А	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		IFSM	30					А		
Max. instantaneous forward voltage drop per diode		Vfm	1.3 (1A)					V		
Max. instantaneous reverse current	Ta=25 ⁰C			5						μA
at rated DC blocking voltage	Ta=125 °C	I _{RM}	100							μA
Operating junction temperature		TJ	-55 ~ +150					°C		
Storage temperature		TSTG	-55 ~ +150					°C		
Maximum reverse recovery time (Note 1)		trr		15	50		250	50	00	nS
Typical junction capacitance (Note 2)		CJ	12					pF		

Notes:

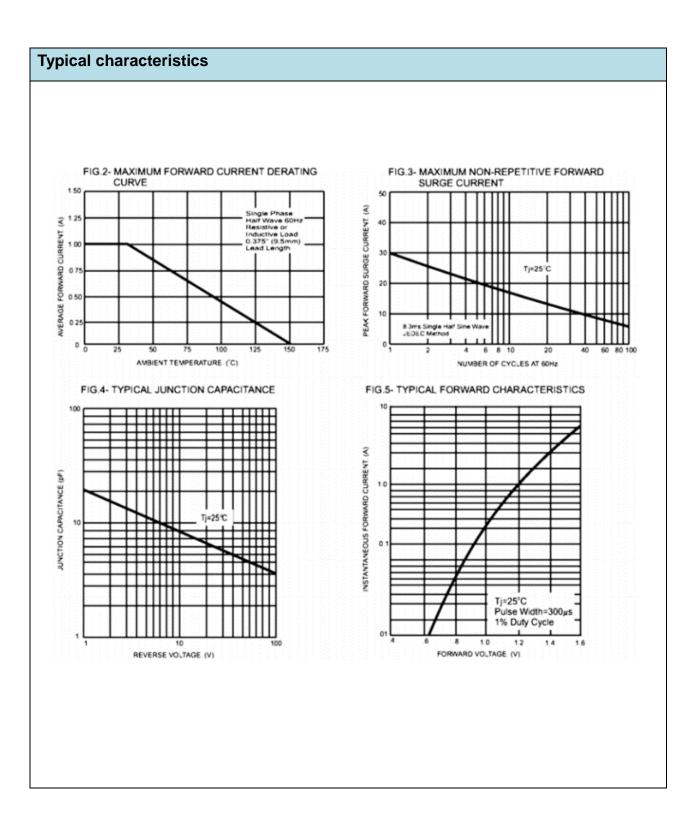
1 Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

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



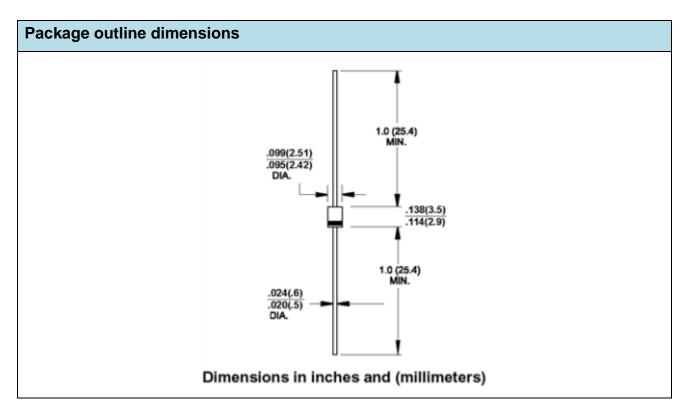
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
1F7G								





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