

Glass Passivated High Efficient Rectifier

<u>R-1</u>



Primary characteristics						
I _{F(AV)}	1A					
V_{RRM}	50V to 1000V					
I _{FSM}	30A					
I _{RM}	5uA					
V _{FM} at I _F =1A	1.0/1.3/1.7V					
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)

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Parameter		Sym	1H1 G	1H2 G	1H3 G	1H4 G	1H5 G	1H6 G	1H7 G	1H8 G	Unit
Max. repetitive peak reverse voltage		V_{RRM}	50	100	200	300	400	600	800	1000	V
Max. RMS reverse voltage		V _{RMS}	35	70	140	210	280	420	560	700	V
Max. DC blocking voltage		V _{DC}	50	100	200	300	400	600	800	1000	V
Max. average forward current		I _{F(AV)}	1					Α			
Non-repetitive peak forward surge current										Α	
8.3ms single half-sine-wave		IFSM	30								
ax. instantaneous forward voltage drop per diode				1	.0		1.3		1.7		V
Max. instantaneous reverse current	Ta=25 °C		5								
at rated DC blocking voltage	Ta=125 °C	I _{RM}	100							μA	
Operating junction temperature		TJ	-55 ~ + 150						°C		
Storage temperature		T _{STG}	-55 ~ +150						°C		
Maximum reverse recovery time (Note1)		trr	50 75				nS				

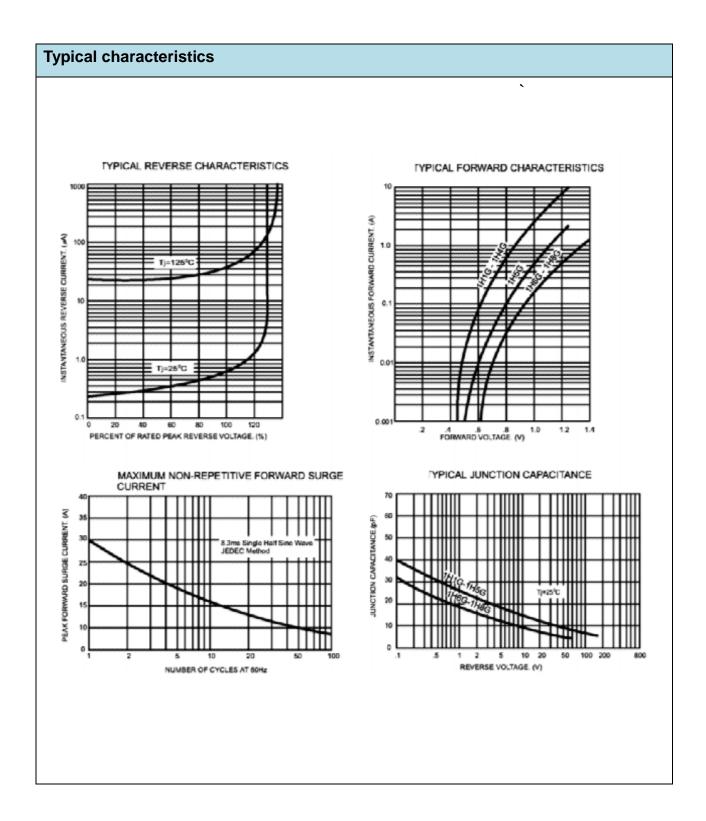
Notes:

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



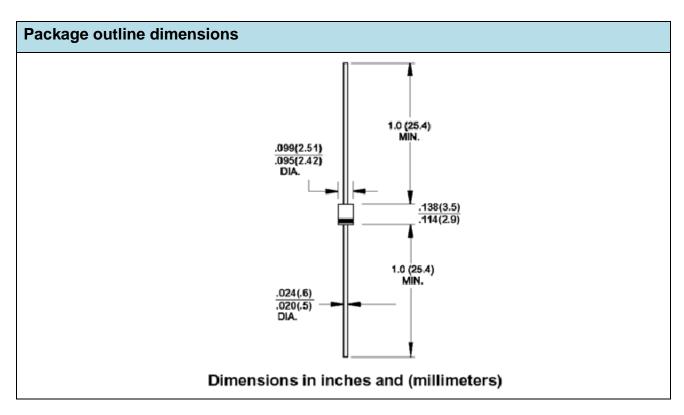
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Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	UNIT WEIGHT (g) PREFERRED PACKAGE CODE		DELIVERY MODE			
1H8G							





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