

DO-41(DO-204AL)

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}	5 μ A
V_{FM} at $I_F=1A$	1.0/1.3/1.7V
T_J max.	150 °C

Applications

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

Mechanical data

- DO-41(DO-204AL)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque: 10cm \cdot kg(8.8 inches \cdot lbs)max.
- Recommended Torque: 5.7 cm \cdot kg(5 inches \cdot lbs)

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

Parameter	Sym	DO-41(DO-204AL)							Unit
		HER 1001G	HER 1002G	HER 1003G	HER 1004G	HER 1005G	HER 1006G	HER 1007G	
Max. repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage	V_{RMS}	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	$I_{F(AV)}$	1							A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	30							A
Max. instantaneous forward voltage drop per diode	V_{FM}	1.0			1.3		1.7		V
Max. instantaneous reverse current at rated DC blocking voltage	I_{RM}	5							μ A
		100							
Operating junction temperature	T_J	-55 ~ +150							°C
Storage temperature	T_{STG}	-55 ~ +150							°C
Maximum reverse recovery time (Note1)	t_{rr}	50				75			nS
Typical thermal resistance (Note2)	R_{J-A}	60							°C/W
	R_{J-L}	15							

Notes:

1 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$

2. Pulse test: 300us pulse width, 1% duty cycle

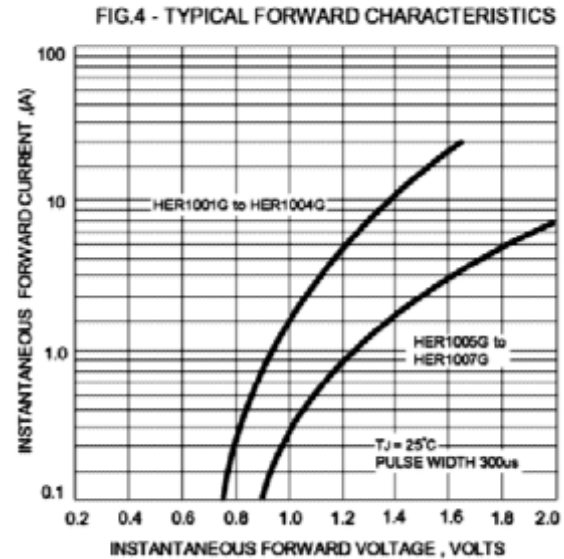
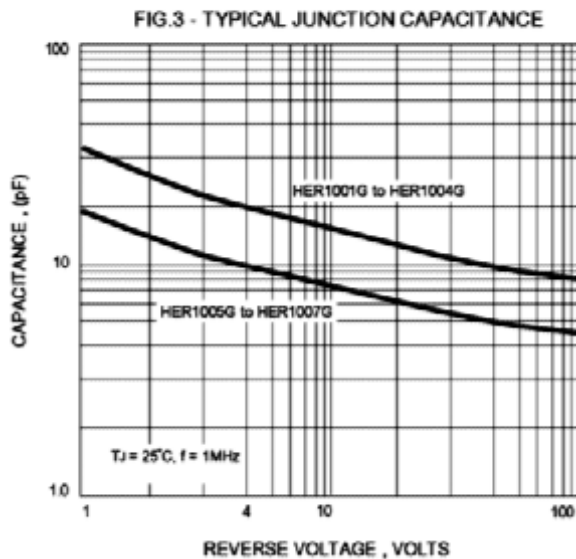
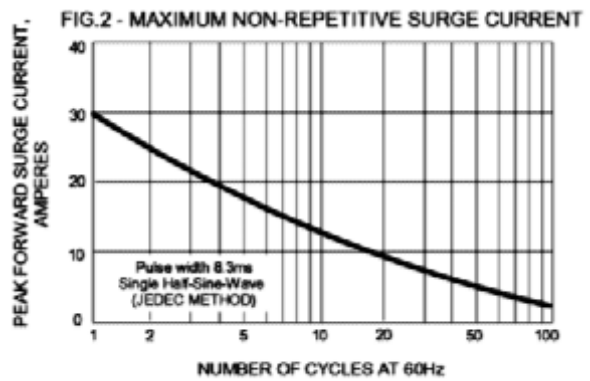
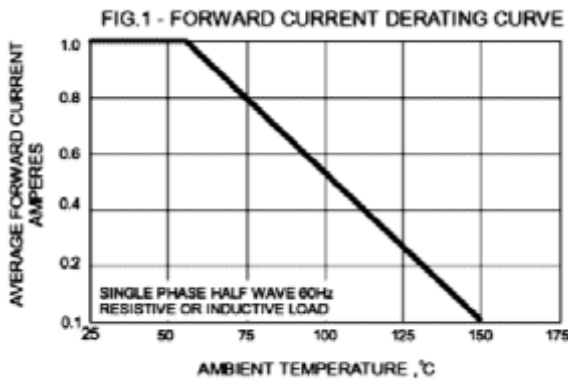


HER1001G thru HER1007G. Glass Passivated High Efficient Rectifier

Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
HER1007G				

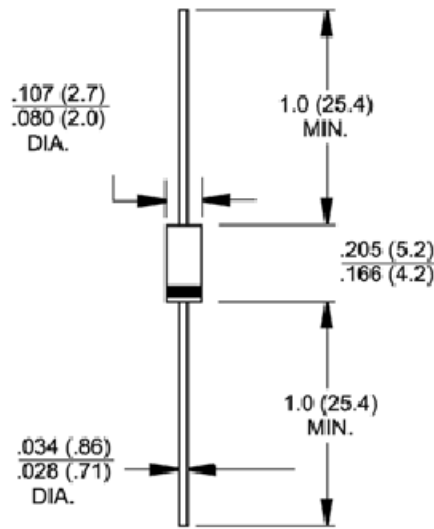
Typical characteristics





HER1001G thru HER1007G. Glass Passivated High Efficient Rectifier

Package outline dimensions



Dimensions in inches and (millimeters)

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