

Glass Passivated High Efficient Rectifier
DO-41/A-405

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/A-405
- 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-41/405								Unit
		HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	
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								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)	trr	50					75			nS
Typical thermal resistance	R J-A	60								°C/W
	R J-C	18								

Notes:

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

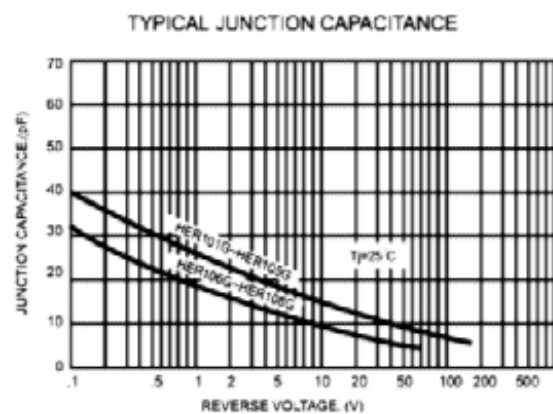
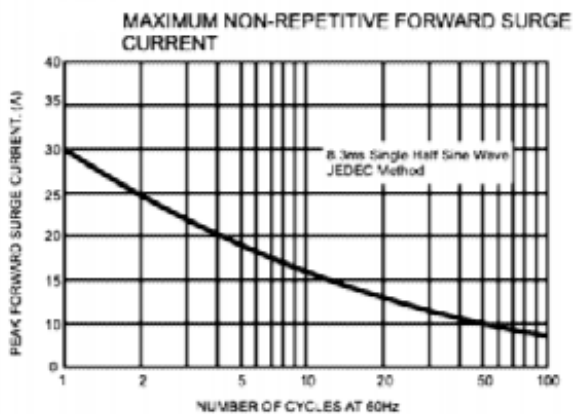
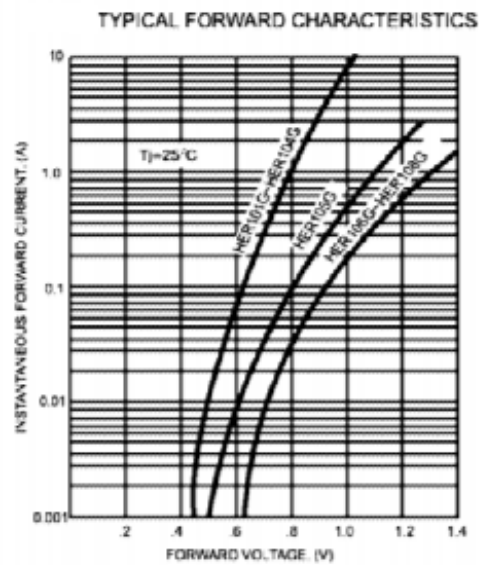
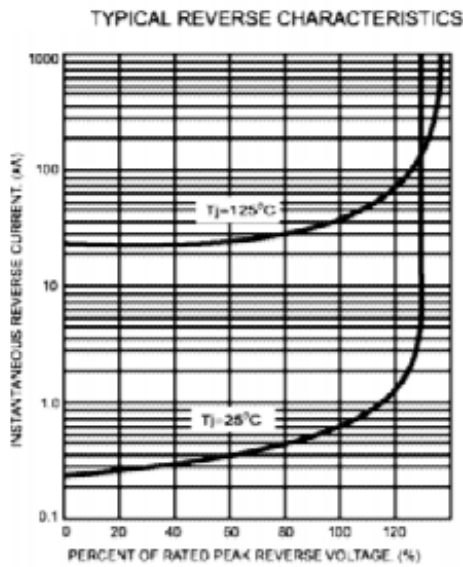


HER101G thru HER108G. Glass Passivated High Efficient Rectifier

Ordering information (Example)

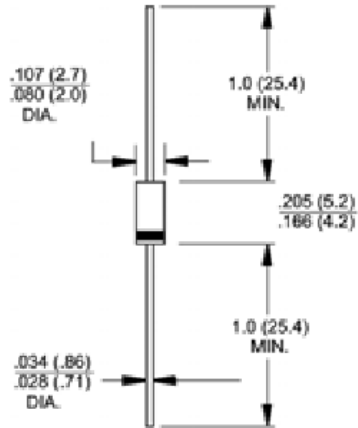
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
HER108G				

Typical characteristics

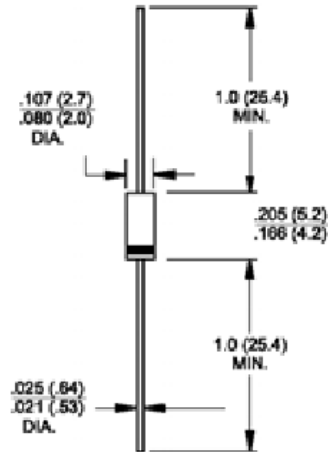


Package outline dimensions

DO-204AL (DO-41)



A-405



Dimensions in inches and (millimeters) Dimensions in inches and (millimeters)

Note: Lead diameter is 0.025(0.64)/0.021(0.53) for part numbers from HER101SG thru HER108SG

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