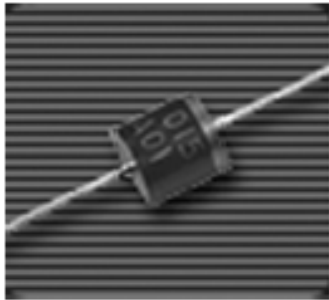


Glass Passivated High Efficient Rectifier
R-6(P600)

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

$I_{F(AV)}$	6A
V_{RRM}	50V to 1000V
I_{FSM}	250A
I_{RM}	10uA
V_{FM} at $I_F=6A$	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

- R-6(P600)
- 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	R-6(P600)								Unit
		HER 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	HER 608G	
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	$I_{F(AV)}$	6								A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	250								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}	10								μA
		200								
Operating junction temperature	T_J	-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: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$



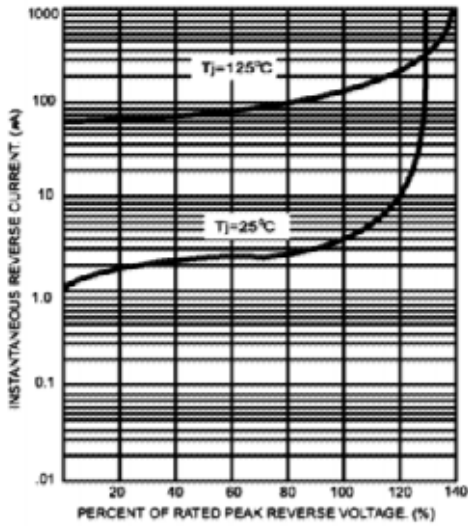
HER601G thru HER608G. Glass Passivated High Efficient Rectifier

Ordering information (Example)

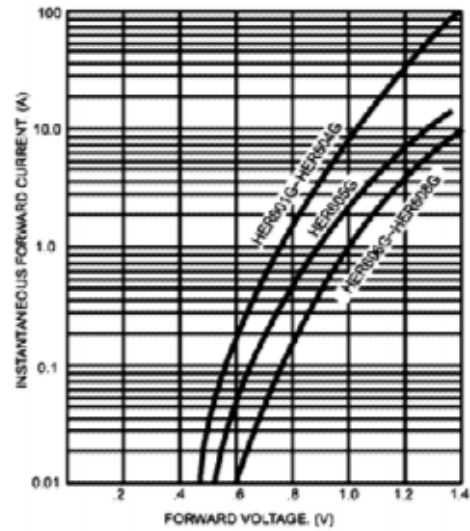
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
HER608G				

Typical characteristics

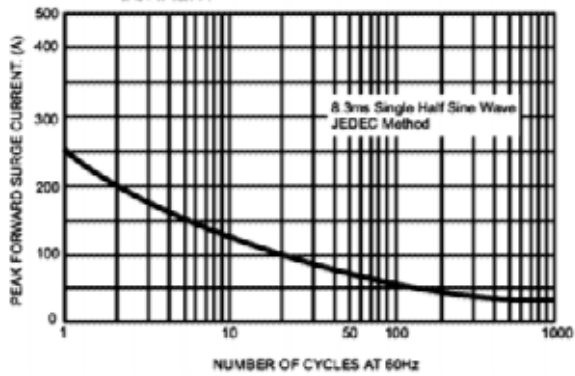
TYPICAL REVERSE CHARACTERISTICS



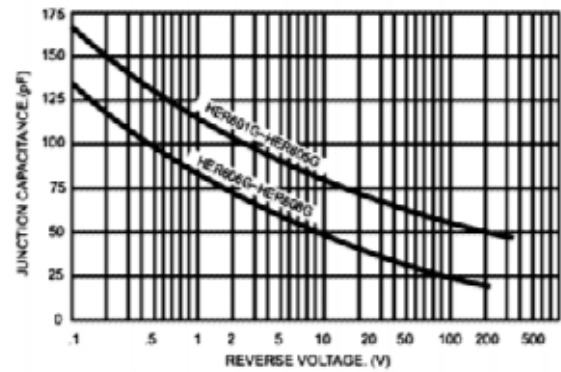
TYPICAL FORWARD CHARACTERISTICS



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



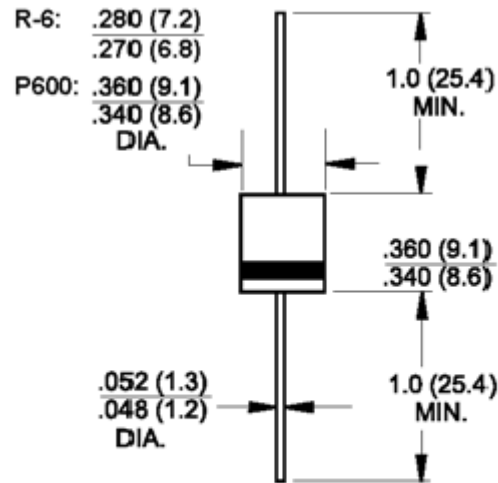
TYPICAL JUNCTION CAPACITANCE





HER601G thru HER608G. Glass Passivated High Efficient Rectifier

Package outline dimensions



Dimensions in inches and (millimeters)

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