

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER HER1601C ~ HER1608C

High Efficiency Glass Passivated Rectifier

Features

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed:
- 250°C/10 seconds, 0.16" (4.06mm) lead length
 Also available in an isolated package, HERF1601C
- Also available in an isolated package, herrioorc
 Also available in the single chip version, HER1601
- Also available in the single clip version, hER1001
 Also available with common Anode, add an "A" suffix, i.e. HER1601CA,
- and as a doubler, add a "D" suffix, i.e. HER 1601CD
- RoHS and REACH Compliance

Mechanical Data

Case:	Transfer molded plastic						
Polarity:	As marked						
Ероху:	UL94V-0 rate flame retardant						
Lead:	Plated axial lead, solderable per MIL-STD-202E Method 208C						
Mounting Position:	Any, 5 in-lbs Torque Max						
Weight:	Weight: 0.064 ounce, 1.81 gram						

Maximum Ratings (*T* Ambient=25°C unless noted otherwise)

Symbol	Description	HER 1601C	HER 1602C	HER 1603C	HER 1604C	HER 1605C	HER 1606C	HER 1607C	HER 1608C	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage		100	200	300	400	600	800	1000	v	
VRMS	Max RMS Voltage	35	70	140	210	280	420	560	700	v	
VDC	Max DC Blocking Voltage	50	100	200	300	400	600	800	1000	v	
I(AV)	Max Average Forward Rectified Current 0.375" (9mm) lead length	16.0							А	Tc=100 ℃	
IFSM	Peak Forward Surge Current		150							Α	JEDEC method
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150							ĉ		

Electrical Characteristics (*T* Ambient=25°C unless noted otherwise)

Symbol	Description	HER 1601C	HER 1602C	HER 1603C	HER 1604C	HER 1605C	HER 1606C	HER 1607C	HER 1608C	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0 1.3				1.5 1.7			v	8.0A	
R0-JA	Typical Thermal Resistance		2.5								Note 2
IR	Max DC Reverse Current at Rated DC Blocking Voltage	10 500								μΑ	TA=25℃ TA=125℃
TRR	Maximum reverse recovery time	50 75							nS	Note 1	
J	Typical Junction capacitance	40								pF	Measured at 1.0MHz / 4.0V

Note:

1. Reverse recovery test conditions: IF= 0.5A, IR=1.0A, IRR = 0.25A

2. Unit mounted on heatsink





HER1601C ~ HER1608C

RATINGS AND CHARACTERISTIC CURVES HER1601C THRU HER1608C

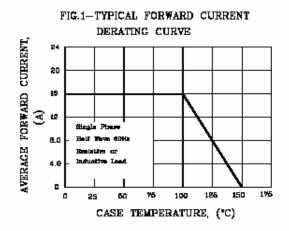


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEX

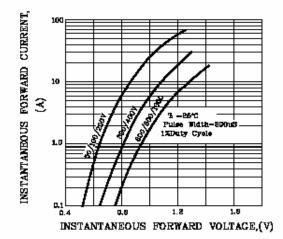
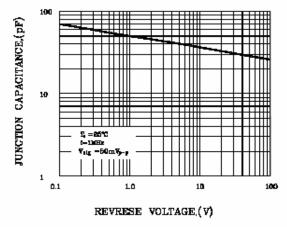
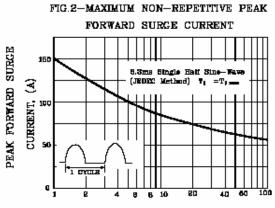


FIG.5-TYPICAL JUNCTION CAPACITANCE PER LEG





NUMBER OF CYCLES AT 60 Hz

FIG.4-TYPICAL REVERSE

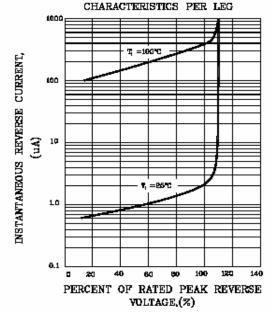
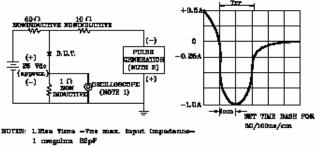


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

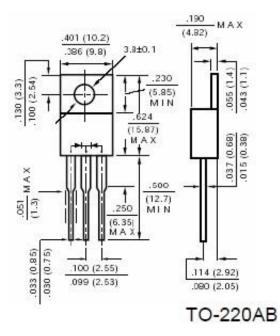


2.Riss time-10ms max Source Impedance-50 ohms



HER1601C ~ HER1608C

Dimensions in inches (mm)



Contact us:

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