

HER2001G thru HER2007G

Glass Passivated High Efficient Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

Features

- Glass passivated chip
- ◆ Ultra fast switching for high efficiency
- ◆ Low reverse leakage current
- ◆ Low forward voltage drop
- ◆ High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- ◆ Plastic material has UL flammabitily classification 94V-0



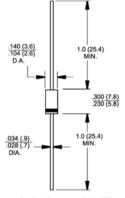
DO-204AC (DO-15)

Mechanical Data

◆ Case : JEDEC DO-204AC(DO-15) molded plastic

Polarity: Color band denotes cathode
Weight: 0.014 ounce, 0.395 gram

◆ Mounting position : Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	HER 2001G	HER 2002G	HER 2003G	HER 2004G	HER 2005G	HER 2006G	HER 2007G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @ T _A =55°C	I _(AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60.0							Amps
Maximum forward voltage at 2.0A DC	V _F	1.0 1.3				1.7			Volts
Maximum DC reverse current @T_=25°C at rated DC blocking voltage @T_=100°C	I _R	5.0 100							uA
Maximum reverse recovery time (Note 1)	t _{rr}	50 75					75		nS
Typical junction capacitance (Note 2)	C _J	30 15						pF	
Typical thermal resistance (Note 3)	R _{eJA}	25							°C/W
Operating junction temperature range	T	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

Notes: 1. Test condition of T_n : $I_p=0.5A$, $I_p=1.0A$, $I_{pp}=0.25A$.

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal Resistance Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES

