

# HER2001G thru HER2007G GOOD-ARK Electronics

# 2A,50-1000V High Efficient Rectifiers

### **Features**

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260°C/10 seconds



DO-15(DO-204AC)

## **Applications**

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	HER2001 G	HER2002 G	HER2003 G	HER2004 G	HER2005 G	HER2006 G	HER2007 G	Unit
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	lf(AV)	2					А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	60					A		
Operating junction temperature range	TJ	-55 to +150				°C			
Storage temperature range	T <sub>STG</sub>	-55 to +150					°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	R <sub>0JA</sub>	60	°C /W				
Thermal Resistance, Junction to Case	Rejc	14	°C /W				
Thermal Resistance, Junction to Lead	Rejl	12	°C /W				



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Electrical Specifications (TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	HER2001 G	HER2002 G	HER2003 G	HER2004 G	HER2005 G	HER2006 G	HER2007 G	Unit
Forward Drop Voltage	VF	I⊧=2A	1.0 1.3 1.7				V			
Reverse	1-	TJ =25℃		5						
leakage I <sub>R</sub> current @V <sub>R</sub>	IR	T」=125℃	100						uA	
Typical junction capacitance	CJ	4.0 V 1 MHZ	30 15					pF		
Maximum		I <sub>F</sub> =0.5A,								
reverse recovery	trr	I <sub>R</sub> =1.0A,	50 75					nS		
time		I <sub>RR</sub> =0.25A								

Note:

1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.



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## **Ratings and Characteristics Curves**

#### (TA = 25°C unless otherwise noted)

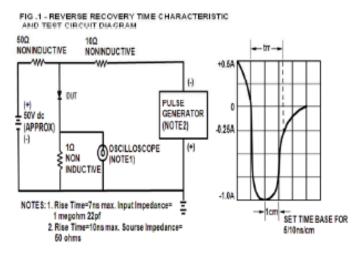
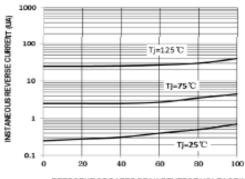


FIG3-Typ REVERSE CHARACTERISTICS



PEERCENT OF RATED PEAK REVERSE VOLTAGE(%)

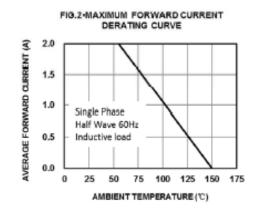


FIG 4-Typ FORWARD CHARACTERISTICS

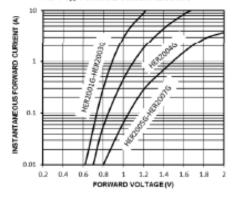
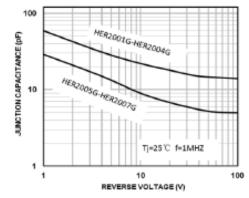
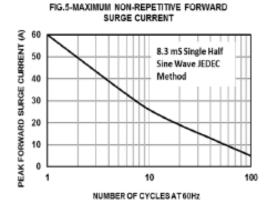


FIG.6-Typ JUNCTION CAPACITANCE







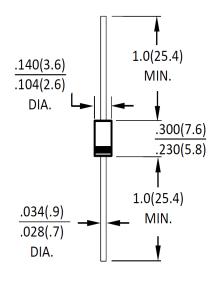
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## Package Outline Dimensions

in inches (millimeters)

## DO-15(DO-204AC)



Dimensions in inches and (millimeters)

## **Revision History**

Document Version	Date of release	Description of changes				
Rev.A	2021.06.01	Released Datasheet				
Rev.B	2023.11.13	Modify document format				



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