# **HER30-1500G**

# ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE: 1500V CURRENT: 3.0A

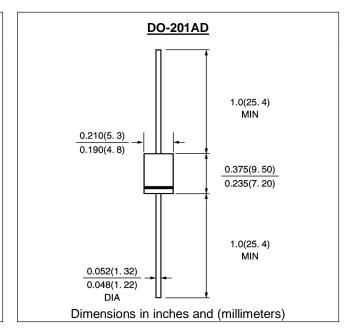


## **FEATURE**

Low power loss High surge capability Ultra-fast recovery time for high efficiency High temperature soldering guaranteed 250°C/10sec/0.375″ lead length at 5 lbs tension

#### **MECHANICAL DATA**

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity:color band denotes cathode Mounting position:any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

		Symbol	HER30-1500G	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	1500	V
Maximum RMS Voltage		Vrms	1050	V
Maximum DC blocking Voltage		Vdc	1500	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =50°C		If(av)	3.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		Ifsm	100	А
Maximum Forward Voltage at rated Forward Current		Vf	1.9	V
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25°C Ta =125°C	lr	10.0 200.0	μΑ
Maximum Reverse Recovery Time	(Note 1)	Trr	100	nS
Typical Junction Capacitance	(Note 2)	Cj	50	pF
Typical Thermal Resistance	(Note 3)	Rth(ja)	20.0	°C/W
Storage and Operating Junction Temperature		Tstg,Tj	-50 to +150	°C

# Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

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#### **RATINGS AND CHARACTERISTIC CURVES HER30-1500G**

140

FIG.1- MAXIMUM AVERAGE FORWARD CURRENT DERATING 3.0 € Single Phase Half Wave 60Hz AVERAGE FORWARD CURRENT. Resistive or 2.0 Inductive Load 0.375" (9.5mm) Lead Length 150 175 25 50 100 AMBIENT TEMPERATURE. (°C)

FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE

CURRENT

FIG.3- TYPICAL REVERSE CHARACTERISTICS

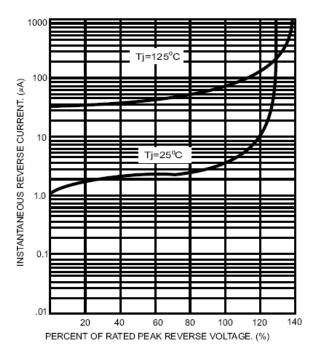


FIG.4- TYPICAL FORWARD CHARACTERISTICS

NUMBER OF CYCLES AT 60 Hz

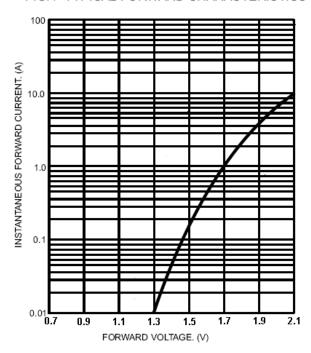


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE

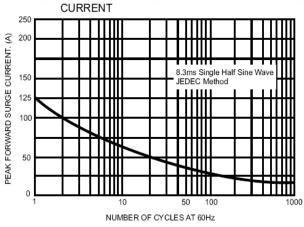
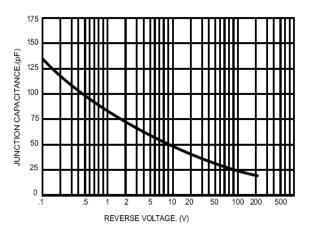


FIG.6- TYPICAL JUNCTION CAPACITANCE



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