

CURRENT 2.0 Ampere  
 VOLTAGE RANG 50 to 1000 Volts

# HER201 THRU HER208

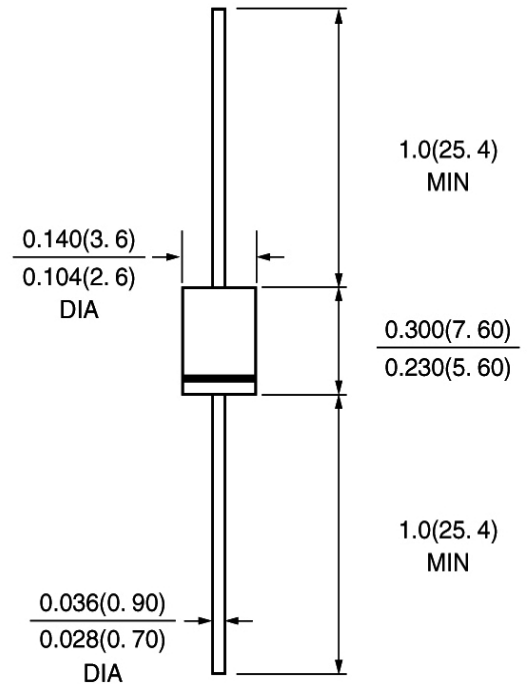
## FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:  
 260 /10 secods/.375 (9.5mm)lead length at 5 lbs(2.3kg) tension

## MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.014ounce, 0.39 grams

DO-15/DO-204AC



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%

	SYMBOLS	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	JNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375 (9.5mm) lead length at $T_A=50$	$I_{(AV)}$	2.0								Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	$I_{FSM}$	60								Amps
Maximum Instantaneous Forward Voltage @ 1.5A	$V_F$	1.0		1.3		1.5		1.7		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25$	5.0								$\mu A$
	$T_A = 125$	250								
Maximum Full Load Recovery Current,full cycle average 0.375 (9.5mm)lead length at $T_L=55$	$I_{R(AV)}$	100								$\mu A$
Maximum Reverse Recovery Time(NOTE 1)	$t_{rr}$	50				75				ns
Typical Thermal Resistance (NOTE 2)	$C_J$	30				20				PF
Typical Thermal Resistance(NOTE 3)	$R_{\theta JA}$	40								/W
Operating Junction Temperature Range	$T_J, T_{STG}$	(-55 to +150)								

**Notes:**

1. Test Condition:IF=0.5A,IR=1.0A,IRR=0.25A
2. Measured at 1 MHz and applied reverse of 4.0 volts.
3. Thermal resistance from junction to ambient with .375 (9.5mm)lead length, P.C.B. mounted.

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RATING AND CHARACTERISTIC CURVES HER201 Thru HER208

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

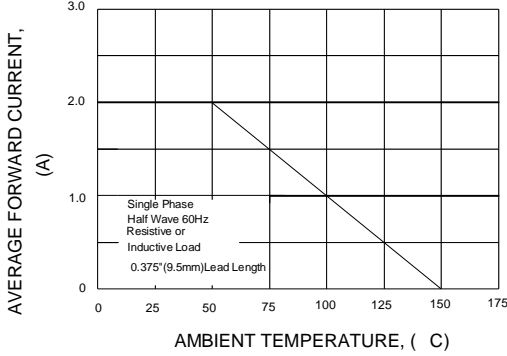


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

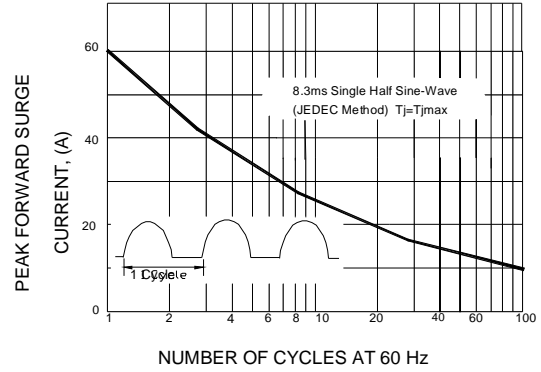


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

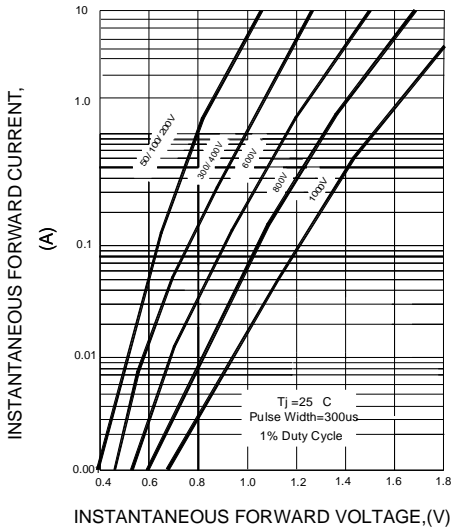


FIG.5-TYPICAL JUNCTION CAPACITANCE

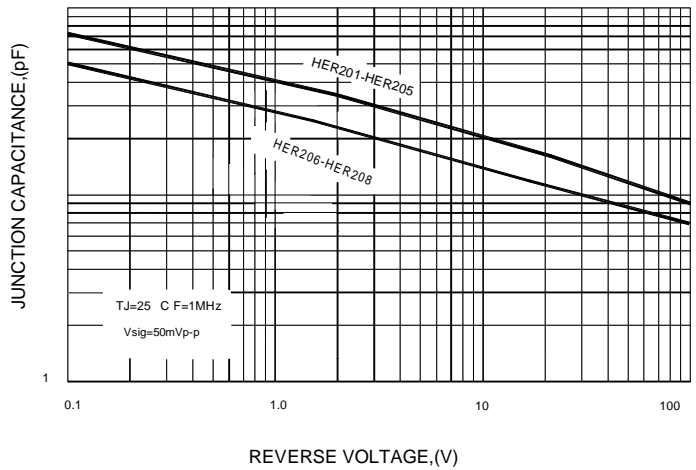


FIG.4-TYPICAL REVERSE CHARACTERISTICS

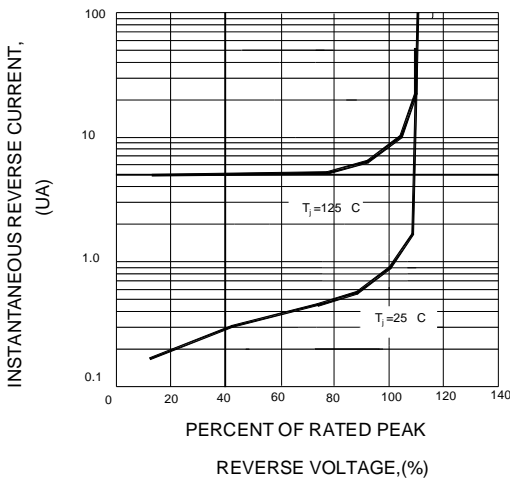


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

