

HER201 THRU HER208

HIGH EFFICIENCY RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

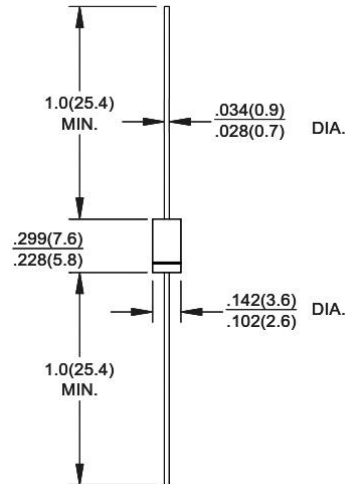
FEATURES

- ◆ High speed switching
- ◆ Low forward voltage drop
- ◆ Low leakage current
- ◆ High forward surge capability
- ◆ High reliability
- ◆ High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length at
5 lbs(2.3kg) tension

Mechanical Data

- ◆ Case: Transfer molded plastic
- ◆ Epoxy: UL94V-0 rate flame retardant
- ◆ Polarity: Color band denotes cathode end
- ◆ Lead: Plated axial lead, solderable per
MIL-STD-202E method 208°C
- ◆ Mounting position: Any

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOL	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	UNIT	
Maximum Recurrent 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 at 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								Amps	
Maximum Instantaneous Forward Voltage at 2.0A	V _F	1.0		1.3			1.7			Volts	
Maximum DC Reverse Current T _A =25°C at rated DC Blocking voltage T _A =100°C	I _R	5.0 100								μA	
Maximum Reverse Recovery Time (NOTE 1)	T _{RR}	50					75				nS
Typical Junction Capacitance (NOTE 2)	C _J	30					20				pF
Typical Thermal Resistance (NOTE 3)	R _{θJA}	50								°C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150								°C	

Note: 1. Reverse Recovery Test Conditions: I_f=0.5A, I_r=1.0A, I_{rT}=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

3. Thermal Resistance HERom Junction to Ambient at .375"(9.5mm) lead length, P.C. board mounted.

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RATING AND CHARACTERISTIC CURVES HER201 THRU HER208

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

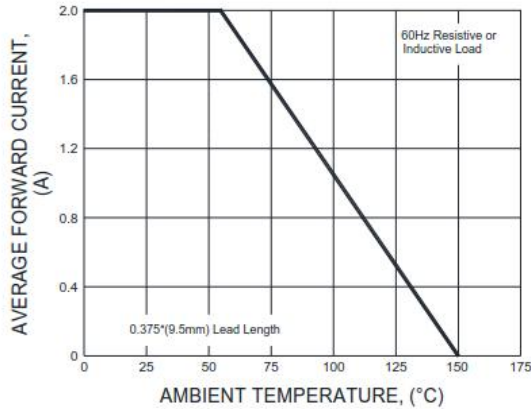


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

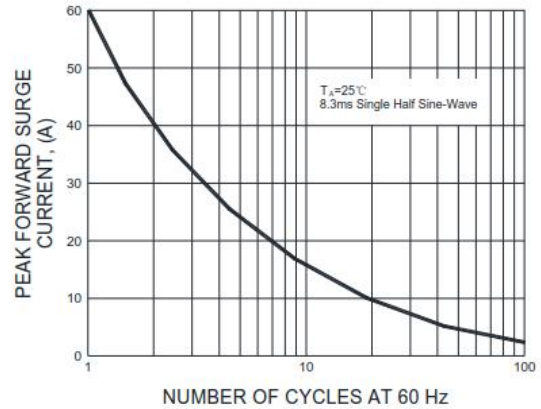


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

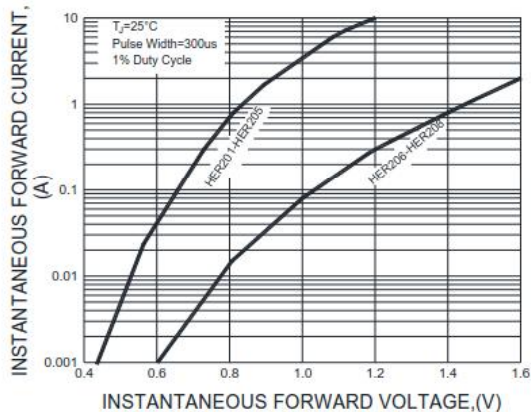


FIG.3-TYPICAL REVERSE CHARACTERISTICS

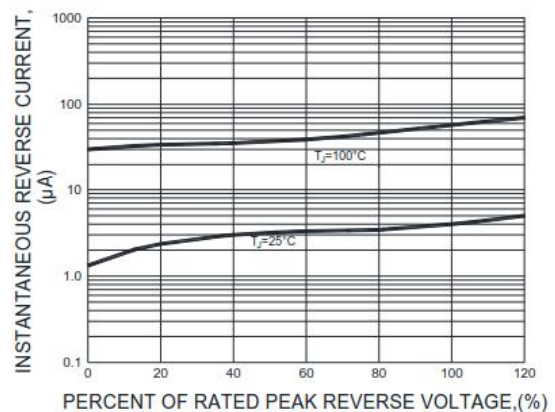


FIG.5-TYPICAL JUNCTION CAPACITANCE

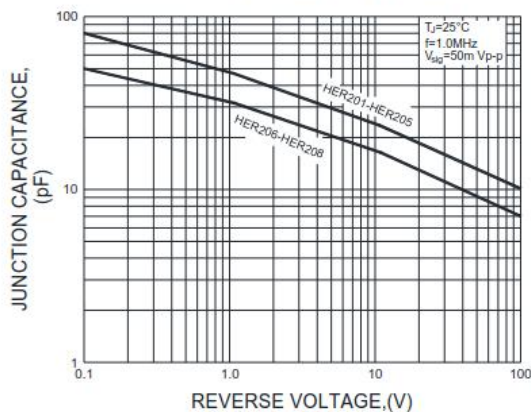
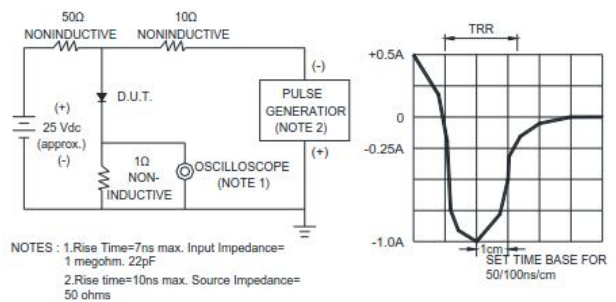


FIG.6-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.