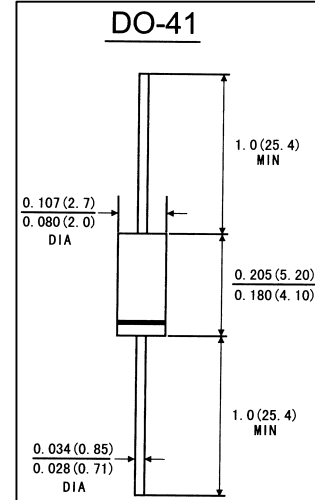


### FEATURES

- . Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- . Low forward voltage drop
- . High current capability
- . High reliability
- . Low power loss,high efficiency
- . Glass passivated junction
- . High speed seitching
- . Low leakage

### MECHANICAL DATA

- . **Case:** JEDEC DO-41 molded plastic body
- . **Epoxy:** UL94V-0 rate flame retardant
- . **Lead:** plated axial leads, solderable per MIL-STD-750, method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.012 ounce, 0.33 gram



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%)

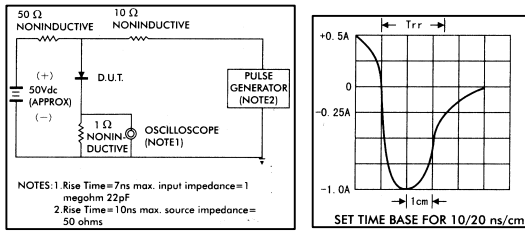
	Symbols	HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at T <sub>A</sub> =50°C	I <sub>(AV)</sub>	1.0								Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30.0								Amps
Maximum instantaneous forward voltage at 1.0 A	V <sub>F</sub>	1.0			1.3		1.7			Volts
Maximum DC Rreverse Current at rated DC blocking voltage	I <sub>R</sub>	5.0								μA
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at T <sub>L</sub> =55°C		100								
Maximum reverse recovery time(Note 1)	T <sub>rr</sub>	50				70				ns
Typical junction Capacitance(Note 2)	C <sub>J</sub>	20				15				pF
Operating and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-65 to +150								°C

**Notes:** 1. Test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A.

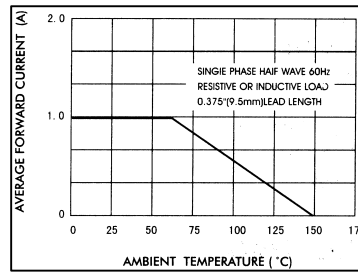
2. Measured at 1MHz and applied reverse voltage of 4.0V Volts

## RATINGS AND CHARACTERISTIC CURVES HER101G THRU HER108G

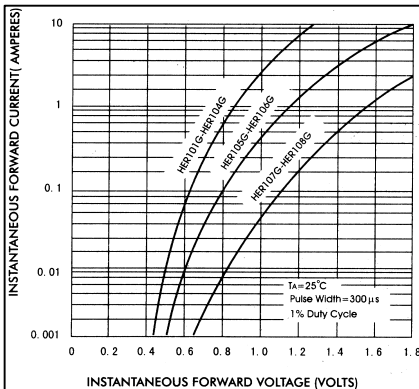
**FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



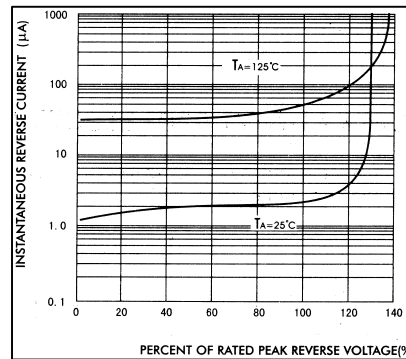
**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



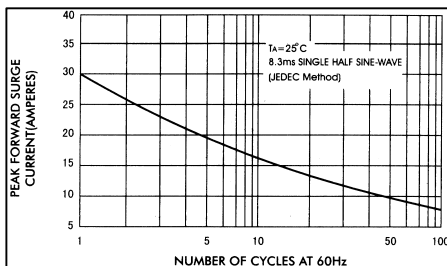
**FIG.3-TYPICAL FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.6-TYPICAL JUNCTION CAPACITANCE**

