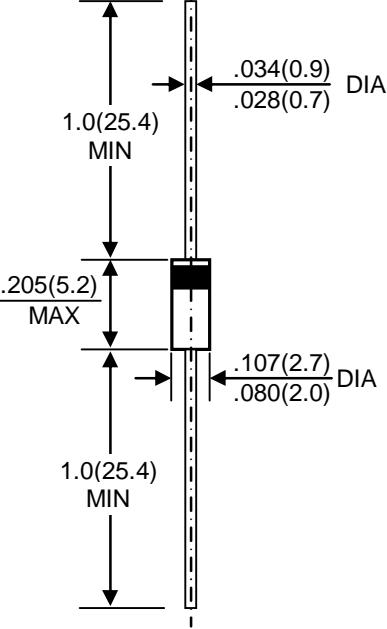


HIGH EFFICIENCY RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Amperes																					
FEATURES	DO- 41																					
<ul style="list-style-type: none"> ● Low cost ● Diffused junction ● Ultra fast switching for high efficiency ● Low reverse leakage current ● Low forward voltage drop ● High current capability ● The plastic material carries UL recognition 94V-0 	 <p>Dimensions in inches and (millimeters)</p>																					
MECHANICAL DATA																						
<ul style="list-style-type: none"> ● Case: JEDEC DO-41 molded plastic ● Polarity: Color band denotes cathode ● Weight: 0.012 ounces , 0.34 grams ● Mounting position: Any 																						
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%																						
CHARACTERISTICS	SYMBOL	HER101	HER102	HER103	HER104	HER105	HER106	HER107	HER108	UNIT												
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V												
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	580	700	V												
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V												
Maximum Average Forward Rectified Current @ T _A =55 °C	I _(AV)	1.0							A													
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30							A													
Peak Forward Voltage at 1.0A DC	V _F	1.0			1.3	1.7			V													
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =100°C	I _R	5.0 100							uA													
Maximum Reverse Recovery Time(Note 1)	T _{RR}	50			75	nS																
Typical Junction Capacitance (Note2)	C _J	20			10	pF																
Typical Thermal Resistance (Note3)	R _{θJA}	25							°C/W													
Operating Temperature Range	T _J	-50 to +125							°C													
Storage Temperature Range	T _{STG}	-50 to +150							°C													
NOTES: 1.Measured with I _F =0.5A,I _R =1A,I _{RR} =0.25A.																						
2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC																						
3.Thermal resistance junction of ambient.																						

RATING AND CHARACTERISTIC CURVES
HER101 thru HER108

HY

FIG. 1 – FORWARD CURRENT DERATING CURVE

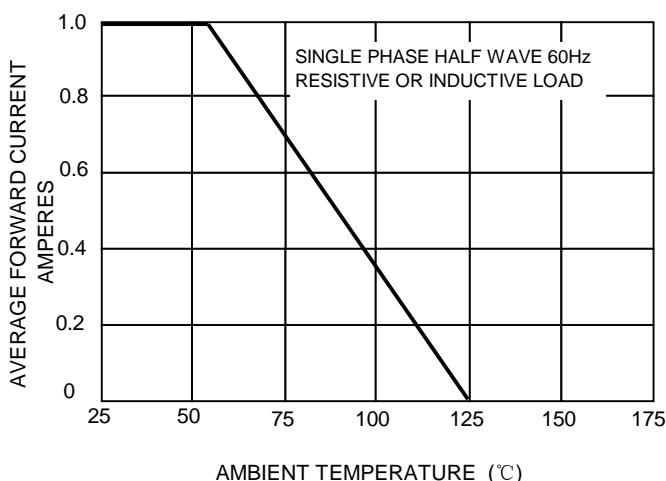


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

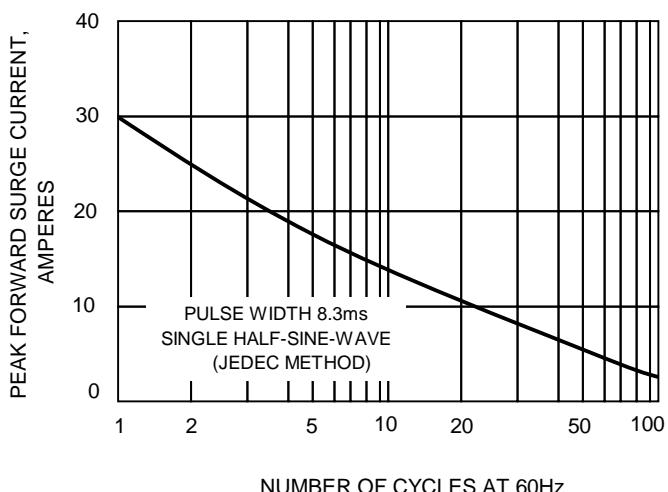


FIG.3 – TYPICAL JUNCTION CAPACITANCE

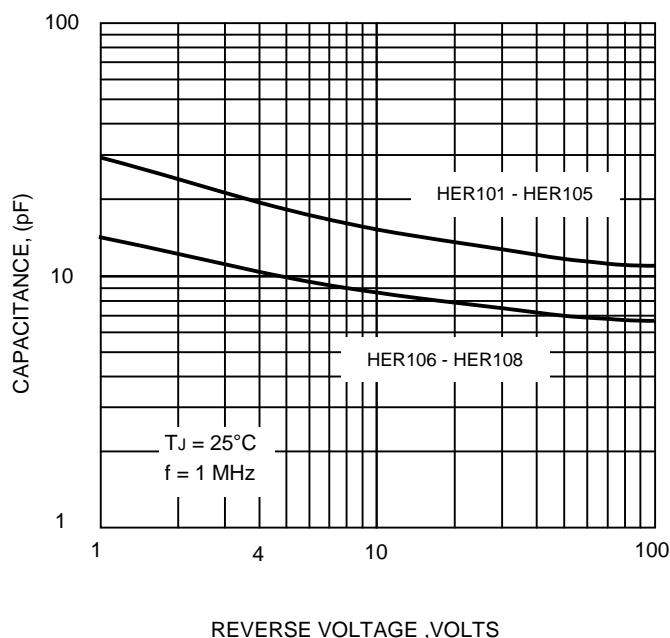
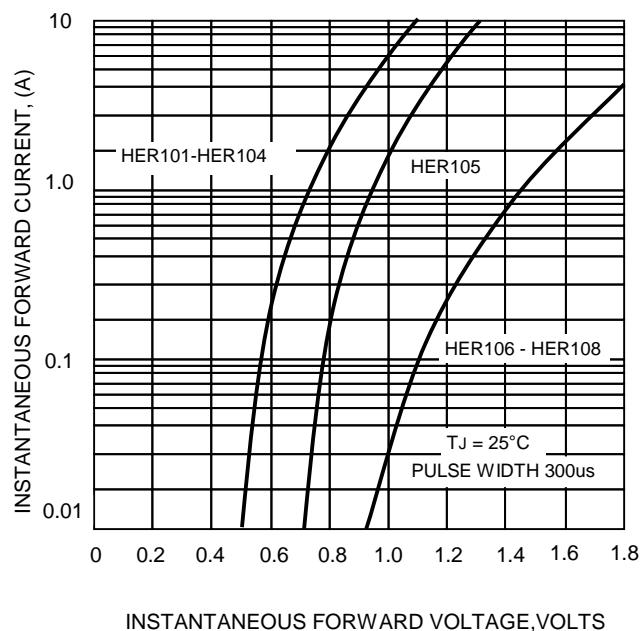


FIG.4-TYPICAL FORWARD CHARACTERISTICS



REVERSE VOLTAGE ,VOLTS

INSTANTANEOUS FORWARD VOLTAGE, VOLTS