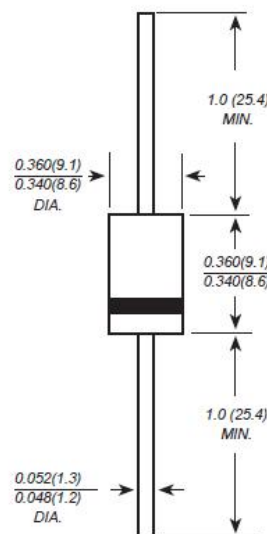


**Kingtronics**®**HER601 THRU  
HER608****HIGH EFFICIENCY RECTIFIERS****REVERSE VOLTAGE 50 to 1000 Volts    FORWARD CURRENT 6.0 Ampere****FEATURES**

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0  
 Fast switching for high efficiency  
 Low reverse leakage  
 High forward surge current capability  
 High temperature soldering guaranteed:  
 250°C/10 seconds, 0.375" (9.5mm) lead length,  
 5 lbs. (2.3kg) tension

**MECHANICAL DATA**

Case: R-6 molded plastic body  
 Terminals: Plated axial leads, solderable per MIL-STD-750,  
 Method 2026  
 Polarity: Color band denotes cathode end  
 Mounting position: Any  
 Weight: 0.072 ounce, 2.05 grams

**R-6****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%

**Dimensions in inches and (millimeters)**

PARAMETER	SYMBOL	HER 601	HER 602	HER 603	HER 604	HER 605	HER 606	HER 607	HER 608	UNIT
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 $T_A=50^\circ\text{C}$	$I_{(AV)}$	6.0								Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	200.0								Amps
Maximum instantaneous forward voltage at 6.0A	$V_F$	1.0		1.4		1.85			VOLTS	
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at Rated DC blocking voltage $T_A=100^\circ\text{C}$	$I_R$	10.0 250.0								$\mu\text{A}$
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	50					100			ns
Typical Junction Capacitance (Note 2)	$C_J$	100.0					65.0			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	10.0								$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-65 to +150								$^\circ\text{C}$

1- Reverse recovery condition  $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ 

2- Measured at 1MHz and applied reverse voltage of 4.0V D.C.

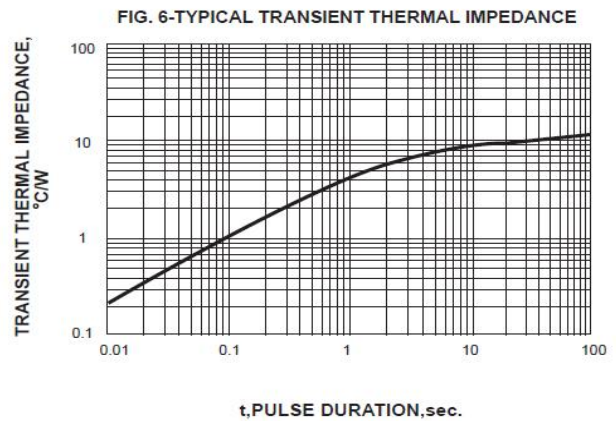
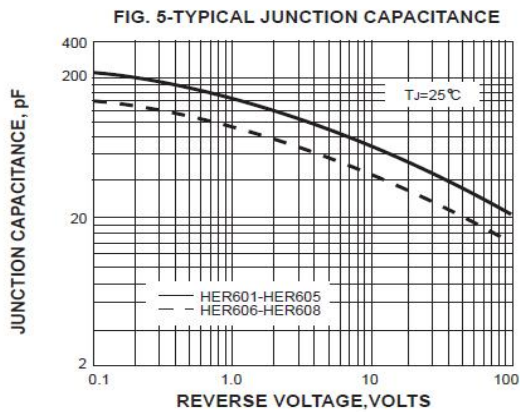
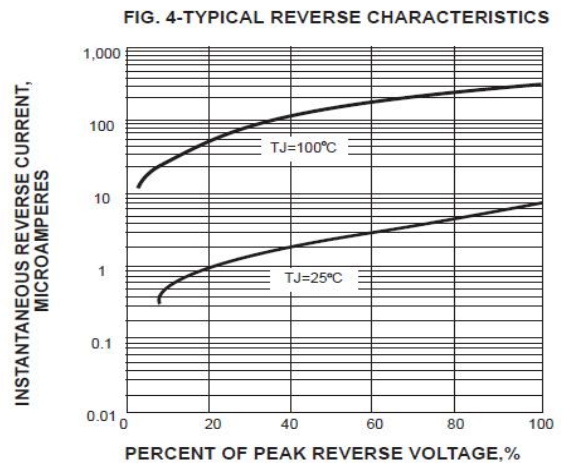
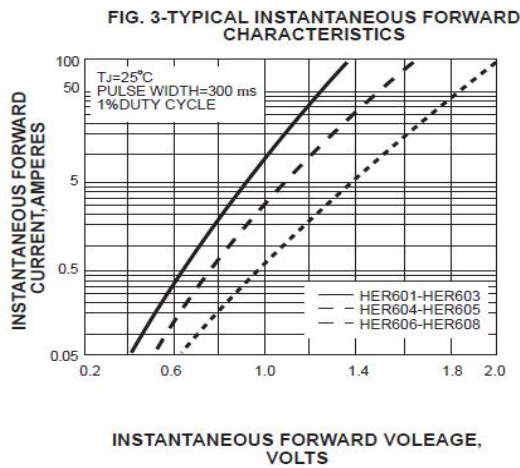
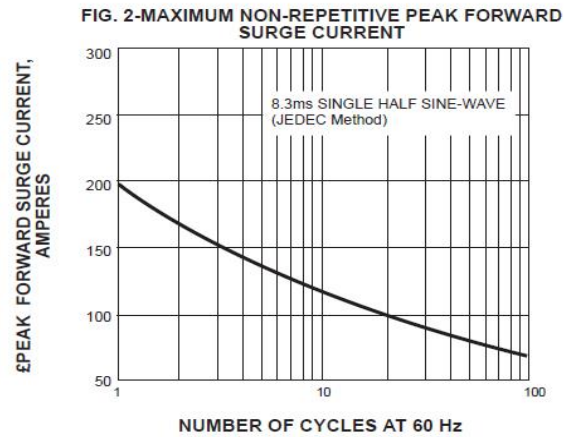
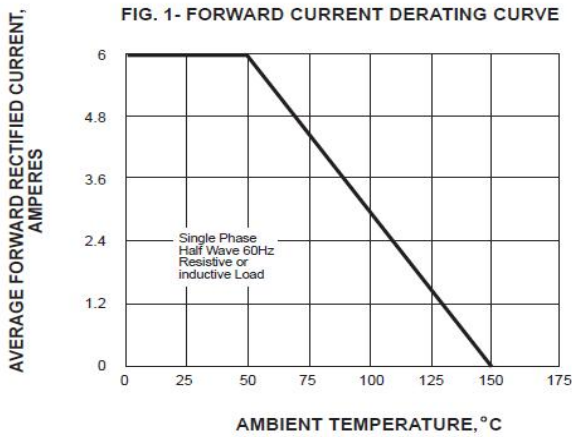
3- Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

**Kingtronics**® International Company

# Kingtronics®

# HER601 THRU HER608

## RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

**Kingtronics® International Company**