



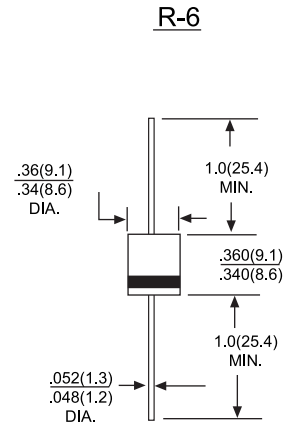
High Efficiency Rectifiers
Reverse Voltage 50V~1000 Volts , Forward Current 6.0 Amperes

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Cases: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds/,375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- Weight: 1.65 grams



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%.

Type Number		HER601	HER602	HER603	HER604	HER605	HER606	HER607	HER608	UNITS	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @TA = 55°C	IF(AV)	6.0								A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	200								A	
Maximum Instantaneous Forward Voltage @6.0A	VF	1.0			1.3		1.7			V	
Maximum DC Reverse Current @ TA = 25°C at Rated DC Blocking Voltage @ TA = 100°C	IR	10.0 200								uA uA	
Maximum Reverse Recovery Time (Note 1)	TRR	50					75				nS
Typical Junction Capacitance (Note 2)	CJ	100					65				pF
Operating Temperature Range	TJ	-55 to +150								°C	
Storage Temperature Range	TSTG	-55 to +150								°C	

Notes:

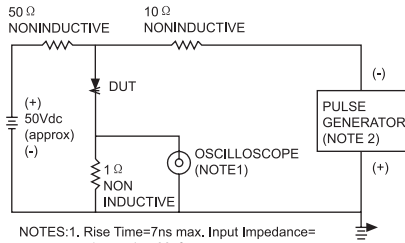
- (1) Test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_T=0.25A$
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts



HER601 ~ HER608

RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVER TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES:1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf
2. Rise Time=10ns max. Source Impedance= 50 ohms

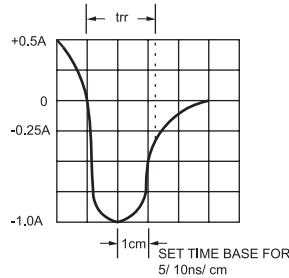


FIG.2-MAXIMUM AVERAGE FORWARD CURRENT DERATING

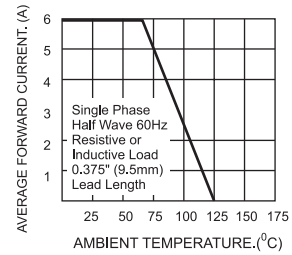


FIG.3-TYPICAL REVERSE CHARACTERISTICS

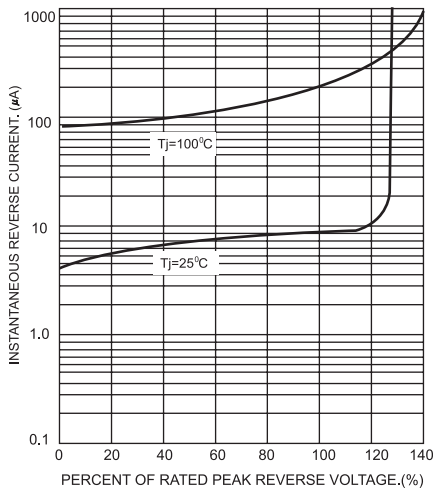


FIG.5-TYPICAL FORWARD CHARACTERISTICS

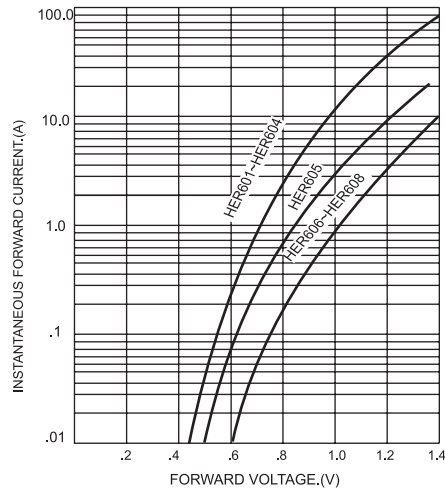


FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

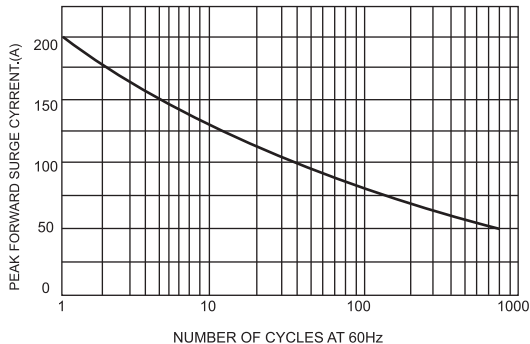


FIG.6-TYPICAL JUNCTION CHARACTERISTICS

