DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

HER1601 THRU HER1606

TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT - 16 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop

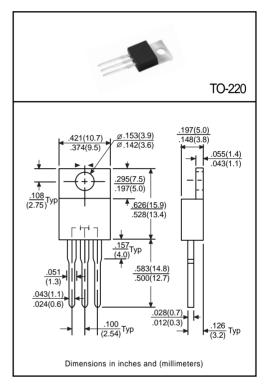
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- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- * Mounting position: Any
- * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	HER1601	HER1602	HER1603	HER1604	HER1605	HER1606	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	300	400	600	Volts
Maximum RMS Voltage		Vrms	35	70	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current at TA = 75°C		ю	16						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150			125			Amps
Maximum Instantaneous Forward Voltage at 16A DC		VF	1.0		1.3		1.7	Volts	
Maximum DC Reverse Current	@Tc = 25°C		10						μAmps
at Rated DC Blocking Voltage	@Tc = 100°C	IR	500						μAmps
Maximum Reverse Recovery Time (Note 1)		trr	50		7	5	100	nSec	
Typical Junction Capacitance (Note 2)		CJ	120		70			pF	
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150					°C	

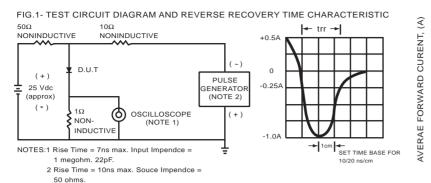
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

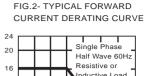
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. Suffix "A" = Common Anode.

4. Suffix "F" Stands for "ITO-220" package. (e.g.: HER1601F, HER1606F,etc)

RATING AND CHARACTERISTIC CURVES (HER1601 THRU HER1606)





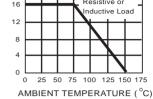


FIG.3- TYPICAL REVERSE CHARACTERISTICS

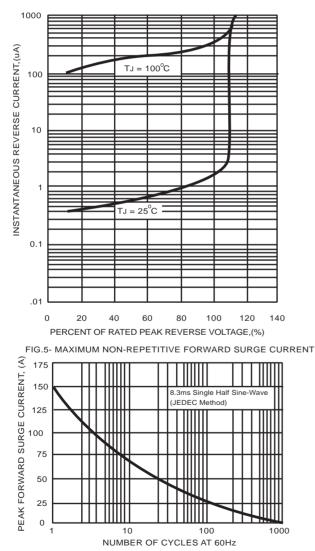
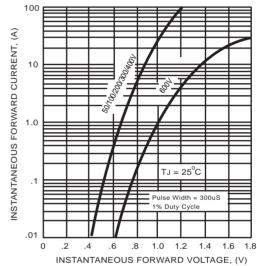
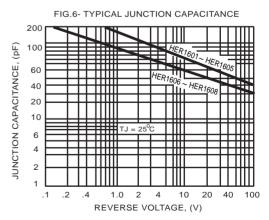


FIG.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





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