



HER20X / UF200X SERIES

HIGH EFFICIENCY (ULTRA FAST) RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes
FEATURES ● 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 MECHANICAL DATA ● Case: JEDEC DO-15 molded plastic ● Polarity: Color band denotes cathode ● Weight: 0.015 ounces , 0.4 grams ● Mounting position: Any	Dimensions in inches and (millimeters)

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	HER201	HER202	HER203	HER204	HER205	HER206	HER207	HER208	UNIT
		UF2001	UF2002	UF2003	UF2004	UF2005	UF2006	UF2007	UF2008	
Maximum Recurrent 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 @TA =50 ℃	I(AV)	2.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	60								A
Peak Forward Voltage at 2.0A DC	VF	1.0			1.3		1.7			V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	IR	5.0 100								μA
Maximum Reverse Recovery Time(Note 1)	TRR	50					75			nS
Typical Junction Capacitance (Note2)	CJ	50					30			pF
Typical Thermal Resistance (Note3)	RθJA	25								℃/W
Operating Temperature Range	TJ	-55 to +125								℃
Storage Temperature Range	TSTG	-55 to +150								℃

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 to ambient

RATING AND CHARACTERISTIC CURVES
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FIG. 1 – FORWARD CURRENT DERATING CURVE

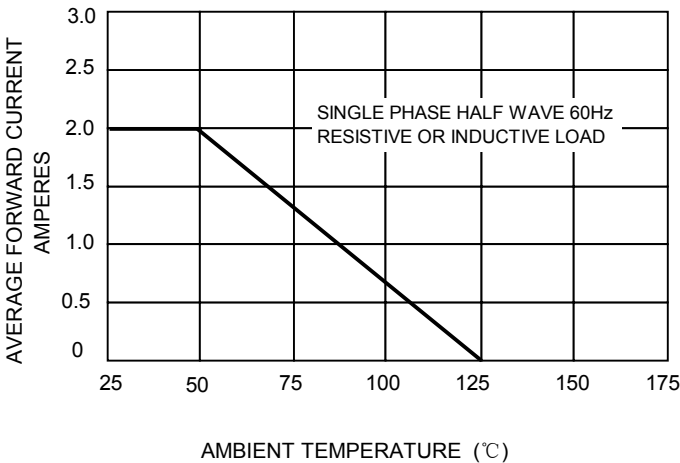


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

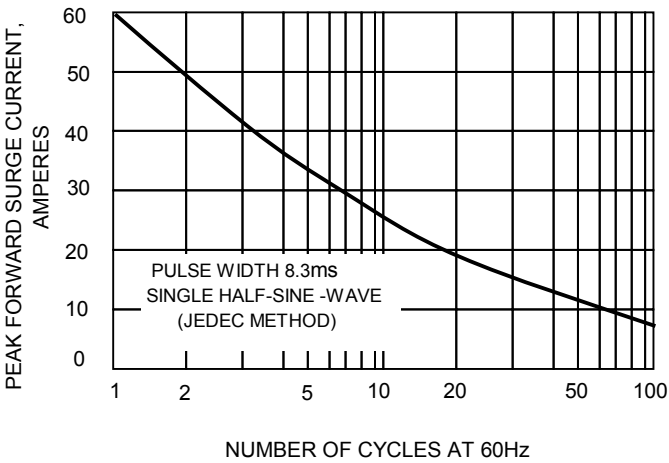


FIG.3 – TYPICAL JUNCTION CAPACITANCE

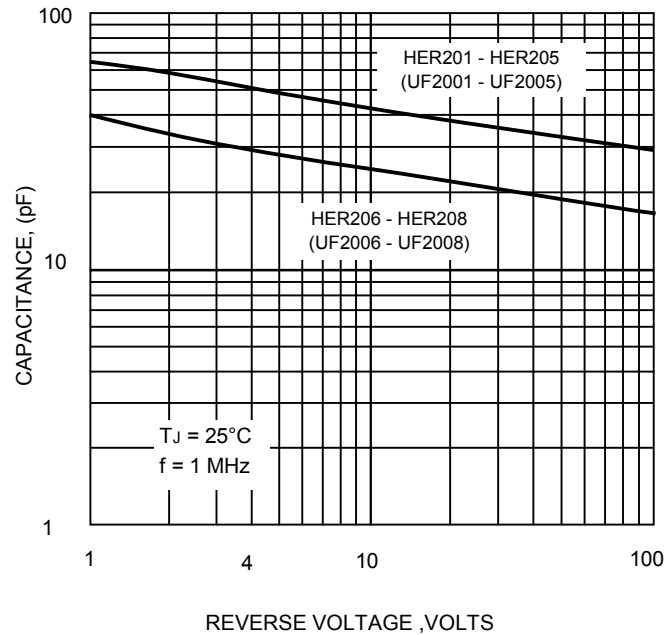


FIG.4-TYPICAL FORWARD CHARACTERISTICS

