



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F, EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 2790-0314 FAX: 2790-0206



HIGH EFFICIENCY RECTIFIER

HER601 THRU HER605

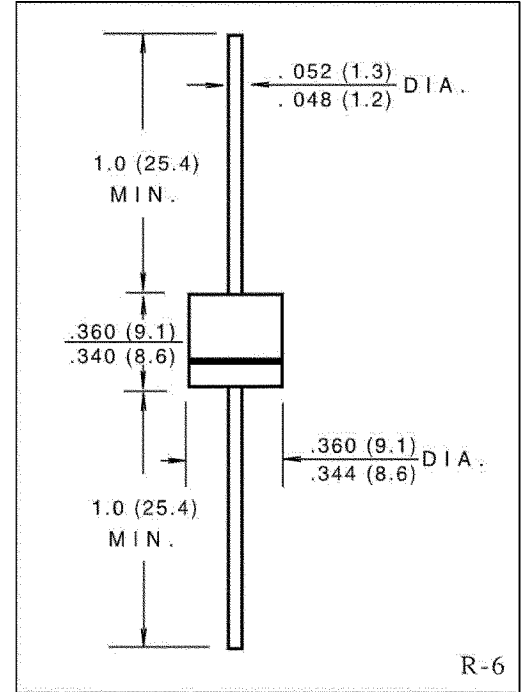
VOLTAGE RANGE 50 to 400 Volts
CURRENT 6.0 Ampere

FEATURES

- Low power loss, high efficiency.
- Low leakage
- High speed switching.
- High current capability.
- High surge capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length
at 5 lbs. (2.3kg) tension

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V - 0 rate flame retardant.
- Polarity: Color band denotes cathode end.
- Lead: Plated axial lead, solderable per MIL - STD - 202E
method 208C
- Mounting position: Any
- Weight: 0.07 ounce, 2.0gram



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%

	SYMBOLS	HER 601	HER 602	HER 603	HER 604	HER 605	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) Lead length at $T_A = 50^\circ C$	$I_{(AV)}$	6.0					Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	200					Amps
Maximum Instantaneous Forward Voltage Drop at 6.0 A	V_F	1.0			1.3		Volts
Maximum DC Reverse Current at rated DC blocking voltage $T_A = 25^\circ C$	I_R	10					μA
Maximum Full Load Reverse Current, full cycle average 0.375" (9.5mm) lead length at $T_L = 55^\circ C$	$I_{R(AV)}$	150					μA
Maximum Reverse Recovery Time (Note 1)	t_r	70					nS
Typical Junction Capacitance (Note 2)	C_J	110					pF
Typical Thermal Resistance(Note 3)	$R_{\theta JA}$	10					$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	(-65 to +150)					$^\circ C$

NOTES:

1. Test condition: $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$
2. Measured at 1 MHz and applied reverse of 4.0 volts.
3. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, P.C.B. mounted.



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

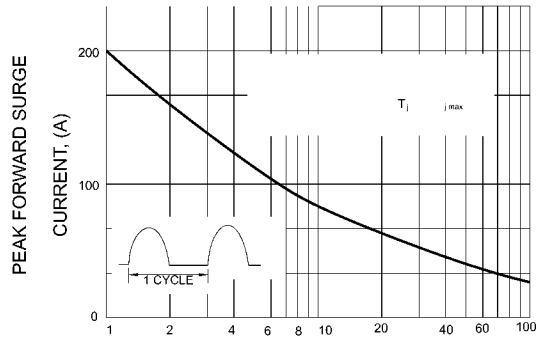
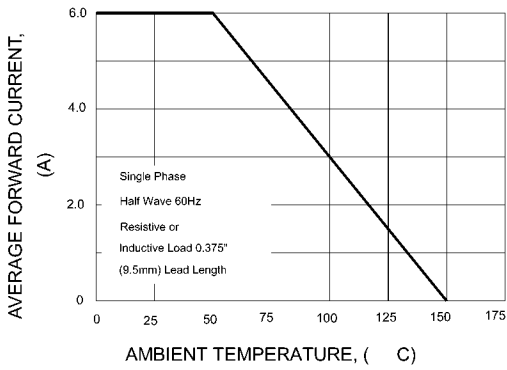
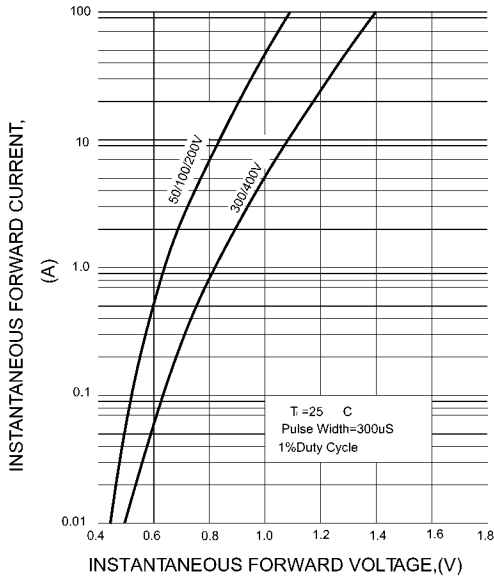


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



CHARACTERISTICS

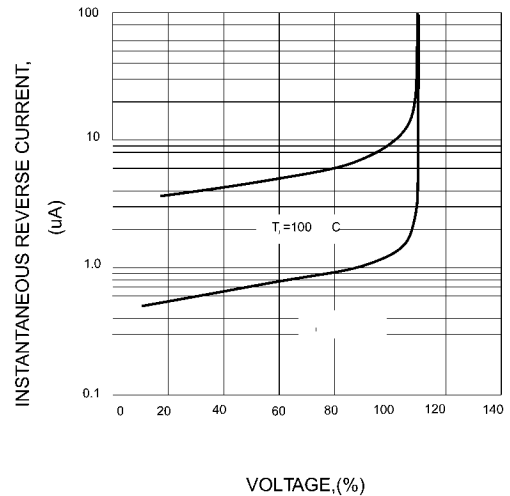
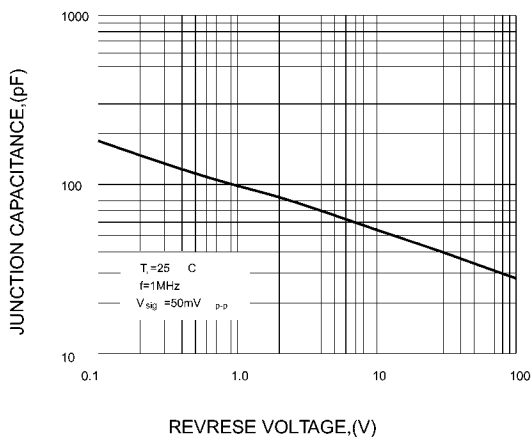


FIG.5-TYPICAL JUNCTION CAPACITANCE



REVERSE RECOVERY TIME CHARACTERISTIC

