



查询"HER1603C"供应商 HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

HER1601C THRU HER1607C

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

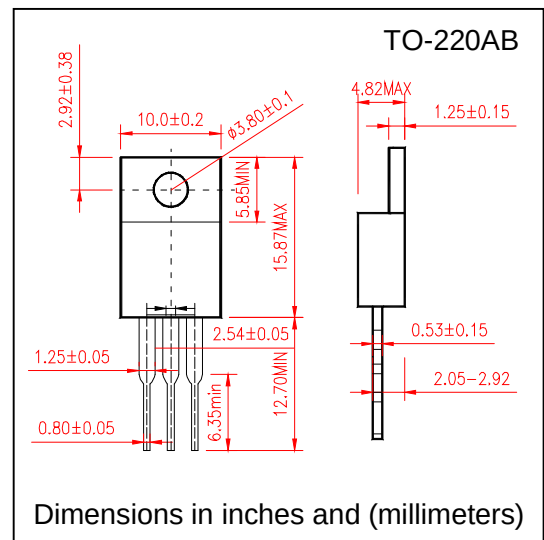
16.0 Ampere

FEATURES

- High speed switching
- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High surge capacity
- High temperature soldering guaranteed
250°C/10 second, 0.16" (4.06mm) lead length
- Also available with common Anode, add an "A" suffix,
i.e. HER1601CA, and as a doubler, add a "D" suffix,
i.e. HER1601CD
- Also available in an isolated package, HERF1601C
- Also available in the single chip version, HER1601

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202E method 208C
- Polarity: as Marked
- Mounting position: Any, 5 in-lbs Torque Max
- Weight: 0.08 ounce, 2.24 gram



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 1601C	HER 1602C	HER 1603C	HER 1604C	HER 1605C	HER 1606C	HER 1607C	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	300	400	600	800	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	210	280	420	560	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	300	400	600	800	Volts
Maximum Average Forward Rectified Current At T _C =100℃		I _(AV)	16.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	125							Amps
Maximum Instantaneous Forward Voltage at 8.0A		V _F	1.0			1.3		1.5	1.7	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	T _A = 25℃	I _R	10							μA
	T _A = 125℃		500							
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	70					100		nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		C _J	40							pF
Typical Thermal Resistance (NOTE 1)		R _{θJC}	2.5							℃/W
Operating Junction Temperature		T _J	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

Notes:

1. Unit mounted on heatsink



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RATING AND CHARACTERISTIC CURVES HER1601C THRU HER1607C

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

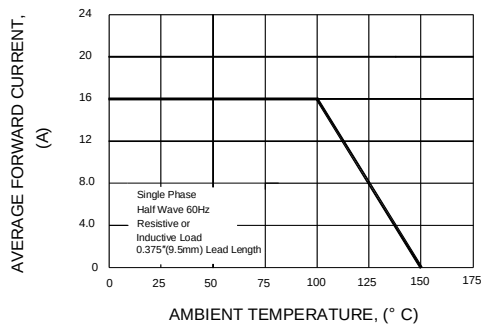


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

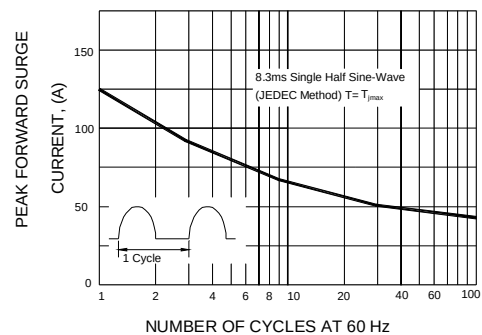


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

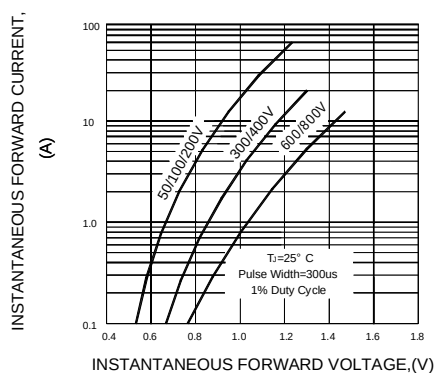


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER LEG

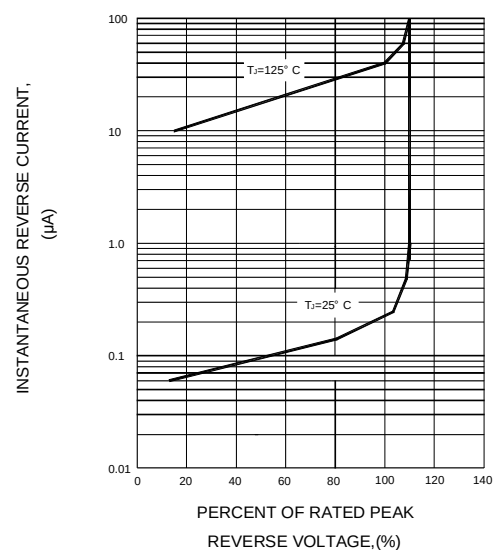


FIG.5-TYPICAL JUNCTION CAPACITANCE PER LEG

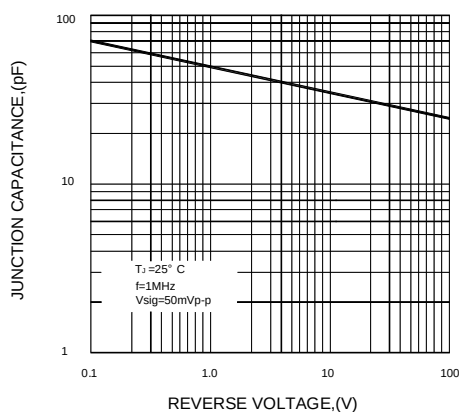
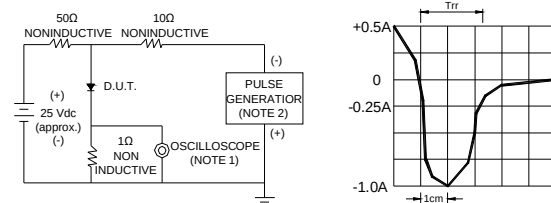


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES : 1.Rise Time=7ns mas. Input Impedance=1 magohm. 22pF
2.Rise time=10ns max. Source Impedance=50 ohms