HER161PT THRU HER167PT

16.0 AMPS. GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS

VOLTAGE RANGE
50 to 800 Volts
CURRENT
16.0 Amperes

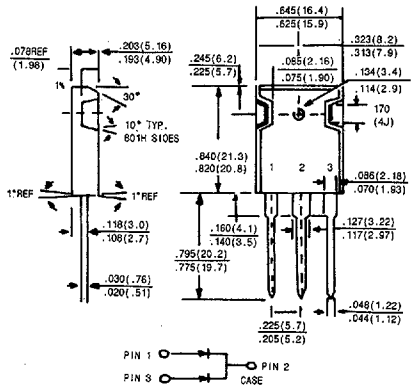
FEATURES

* Dual rectifier construction, positive center-tap
* Plastic package has Underwriters Laboratory Flammability Classification 94V-O
* Glass passivated chip junctions
* Superfast recovery time, high voltage
* Low forward voltage, high current capability
* Low thermal resistance
* Low power loss, high efficiency
* High temperature soldering guaranteed: 250°C,.17" (4.3mm) from case for 10 seconds

MECHANICAL DATA

* Case:JEDEC TO-3P/TO-247AD molded plastic
* Terminals:Plated Leads solderable per MIL-STD-750. Method 2026
* Polarity:As marked
* Mounting Position:Any
* Mounting Torque:10in-lbs. Max.
* Weight:0.2 ounce, 5.6 gram

TO-3P/TO-247AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

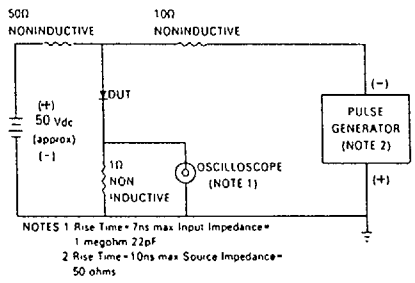
Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	HER 161PT	HER 162PT	HER 163PT	HER 164PT	HER 165PT	HER 166PT	HER 167PT	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	V
Maximum RMS Voltage	35	70	140	210	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	V
Maximum Average Forward Rectified Current @ Tc=100°C	16.0							A
Peak Forward Surge Current, 8.3 ms single half sine -wave superimposed on rated load (JEDEC method)	200.0							A
Maximum Instantaneous Forward Voltage at 8.0A	1.3					1.5		V
Maximum D.C Reverse Current @Tc=25°C at Rated D.C Blocking Voltage @Tc=100°C	10.0 500.0							μA μA
Maximum Reverse Recovery Time(NOTE 2) @Tj=25°C	50					80		nS
Typical junction Capacitance (Note 1)	85.0					60.0		pF
Operating and Storage Temperature Range, Tj, T_{STG}	-55 to +150							°C

NOTES: 1.Measured at 1 MHz and applied reverse Voltage of 4.0 volts.
2.Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, recover to 0.25A.

RATINGS AND CHARACTERISTIC CURVES(HER161PT THRU HER167PT)

REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



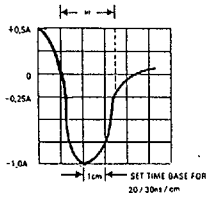


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

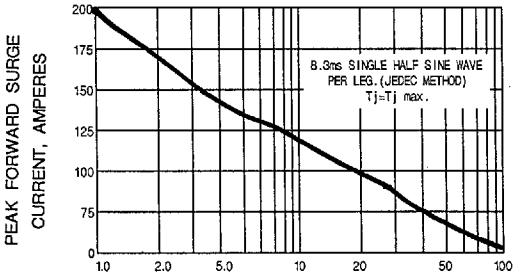


FIG.1 FORWARD CURRENT DERATING CURVE

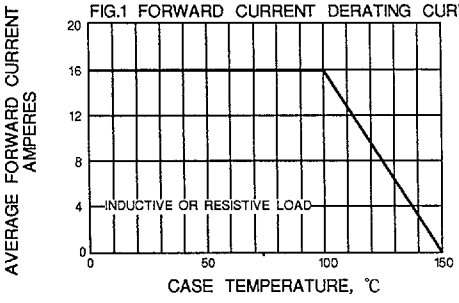


FIG.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

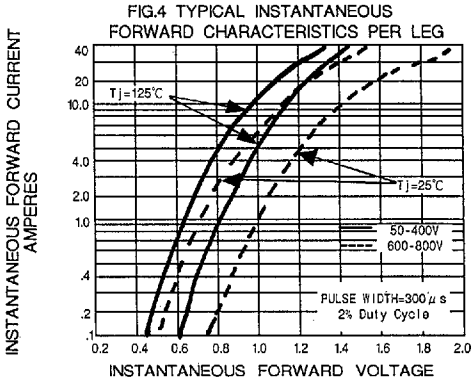


FIG.3 TYPICAL REVERSE CHARACTERISTICS, PER LEG

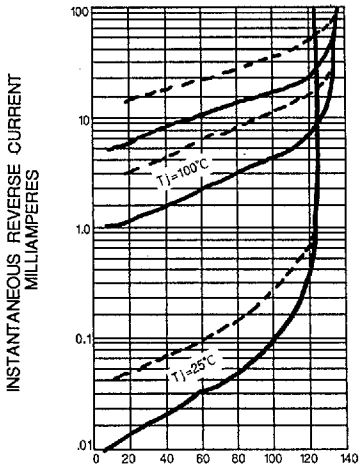


FIG.5 TYPICAL JUNCTION CAPACITANCE PER LEG