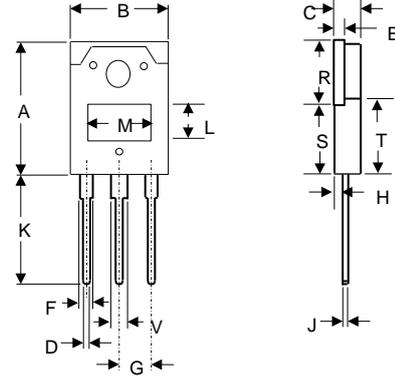


Features

- * Superfast recovery time, high voltage
- * Low forward voltage, high current capability
- * Low thermal resistance
- * Low power loss, high efficiency



RoHS
COMPLIANT



DIM	TO-3P			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.771	0.795	19.60	20.20
B	0.606	0.622	15.40	15.80
C	0.181	0.197	4.60	5.00
D	0.044	0.048	1.12	1.22
E	0.058	0.060	1.48	1.52
F	0.071	0.086	1.80	2.20
G	0.208	0.220	5.30	5.60
H	0.051	0.059	1.30	1.50
J	0.021	0.026	0.55	0.65
K	0.787	0.811	20.00	20.60
L	0.342	0.358	8.70	9.10
M	0.421	0.437	10.70	11.10
R	0.267	0.283	6.80	7.20
S	0.500	0.515	12.70	13.10
T	0.539	0.551	13.70	14.00
V	0.110	0.126	2.80	3.20

Mechanical Data

- * Case: TO-3P
- * Molding compound, UL flammability classification rating 94V-0
- * Terminal: Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 2 whisker test
- * Polarity: As marked
- * Mounting torque: 1.13 Nm max.
- * Weight: 5.6g (approximately)

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	HER 1601 PT	HER 1602 PT	HER 1603 PT	HER 1604 PT	HER 1605 PT	HER 1606 PT	HER 1607 PT	HER 1608 PT	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V	
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	V	
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	V	
Maximum average forward rectified current	I _{F(AV)}	16								A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200								A	
Maximum instantaneous forward voltage (Note 1)	I _F =8A V _F	1.0			1.3		1.7			V	
Maximum reverse current @ rated VR	T _J =25°C	10.0								μA	
	T _J =125°C	500									
Maximum reverse recovery time (Note 2)	t _{rr}	50				80				ns	
Typical junction capacitance (Note 3)	C _J	85				60				pF	
Operating junction temperature range	T _J	- 55 to +150									°C
Storage temperature range	T _{STG}	- 55 to +150									°C

Note 1: Pulse test with PW=300μs, 1% duty cycle

Note 2: Test conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Measured at 1 MHz and applied reverse voltage of 4.0V DC.

Ratings and Characteristic Curves

FIG. 1 MAXIMUM FORWARD CURRENT DERATING CURVE

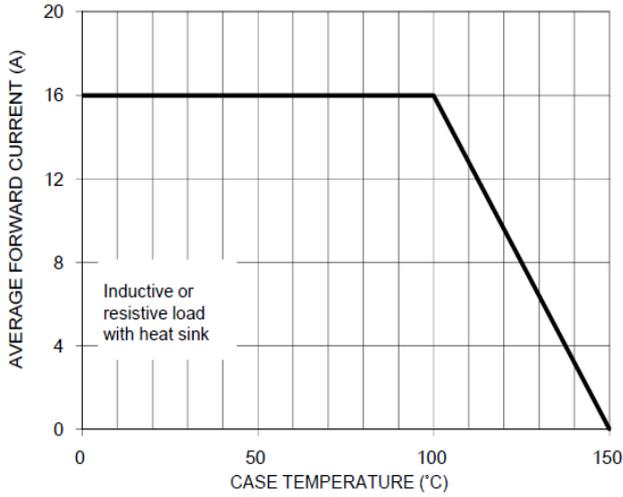


FIG. 2 TYPICAL REVERSE CHARACTERISTICS PER LEG

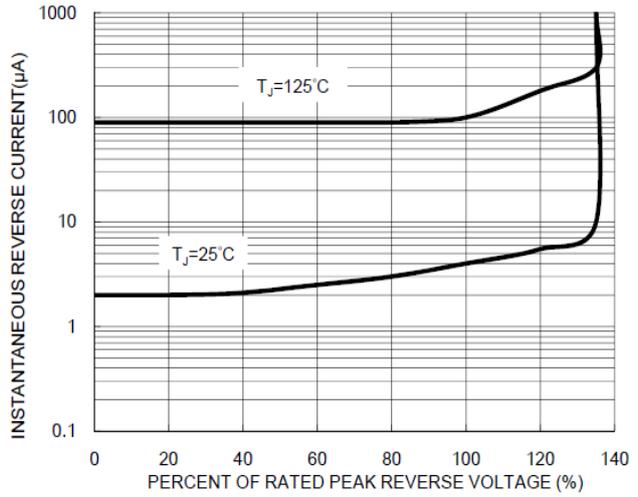


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

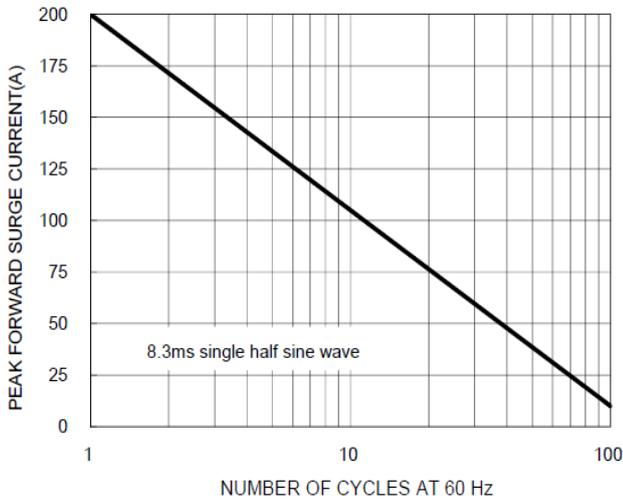


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

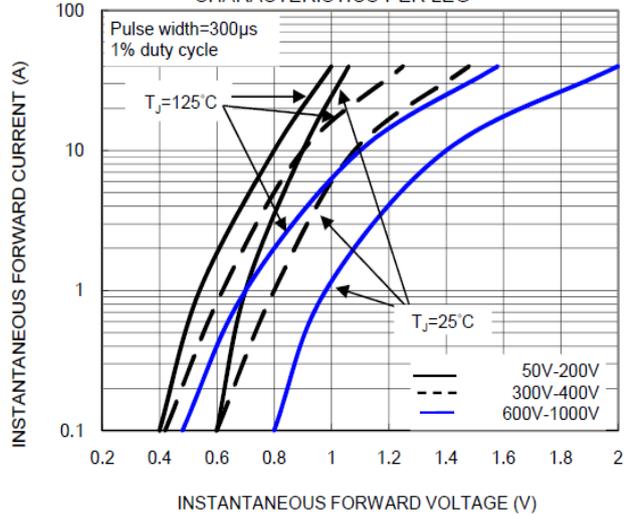


FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG

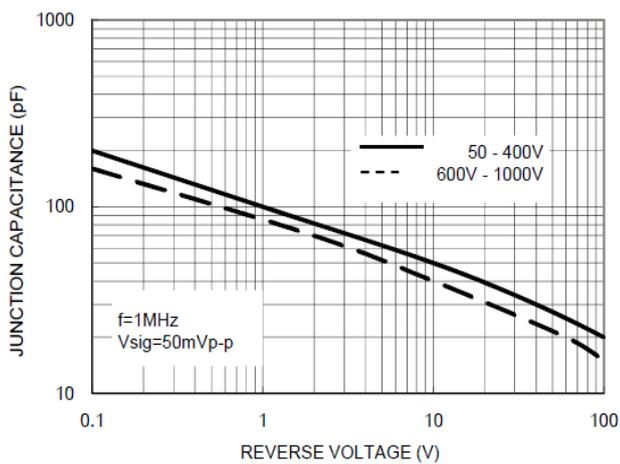
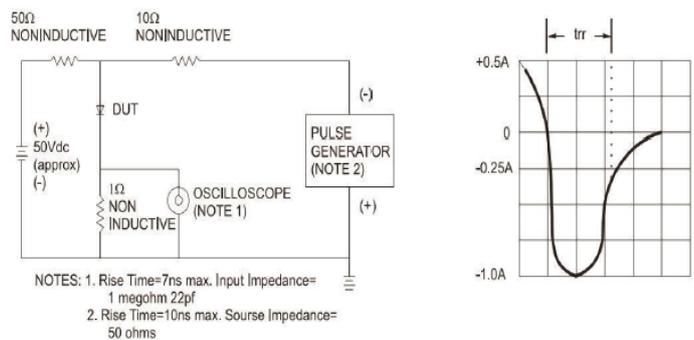


FIG. 6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





HER1601PT THRU HER1608PT *Glass Passivated High Efficient Rectifiers*

Ordering Information

Part No.	Package	Packing Code	Packing
HER1601PT THRU HER1608PT	TO-3P	TXB	30pcs/Tube

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