

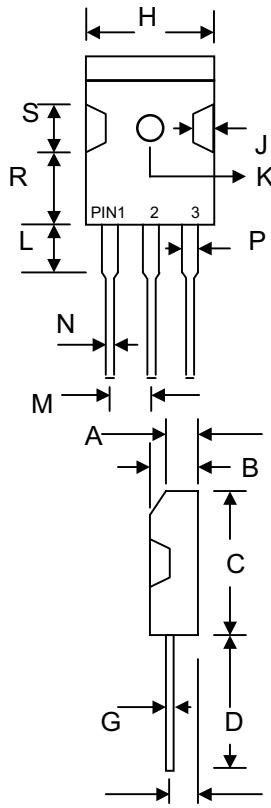
Data Sheet 2662, Rev. -

Features

- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

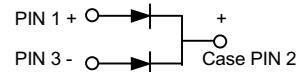
Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



TO-3P		
Dim	Min	Max
A	0.126(3.20)	0.138(3.50)
B	0.181(4.59)	0.203(5.16)
C	0.819(20.80)	0.839(21.30)
D	0.776(19.70)	0.795(20.20)
E	0.083(2.10)	0.094(2.40)
G	0.020(0.51)	0.030(0.76)
H	0.626(15.90)	0.646(16.40)
J	0.067(1.70)	0.106(2.70)
K	0.122(3.10)Ø	0.130(3.30)Ø
L	0.138(3.50)	0.176(4.51)
M	0.205 (5.20)	0.224(5.70)
N	0.044(1.12)	0.048(1.22)
P	0.114(2.90)	0.130(3.30)
R	0.461(11.70)	0.504(12.80)
S	0.170(4.30) Typical	

All Dimensions in inch(mm)



Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

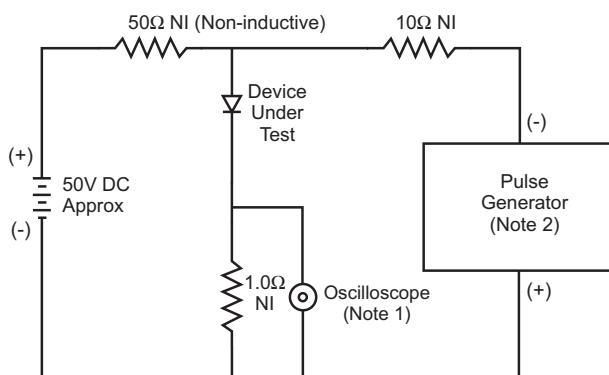
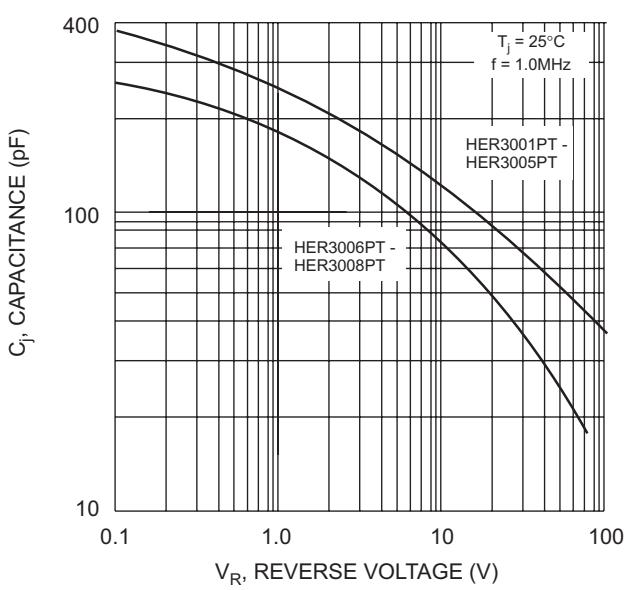
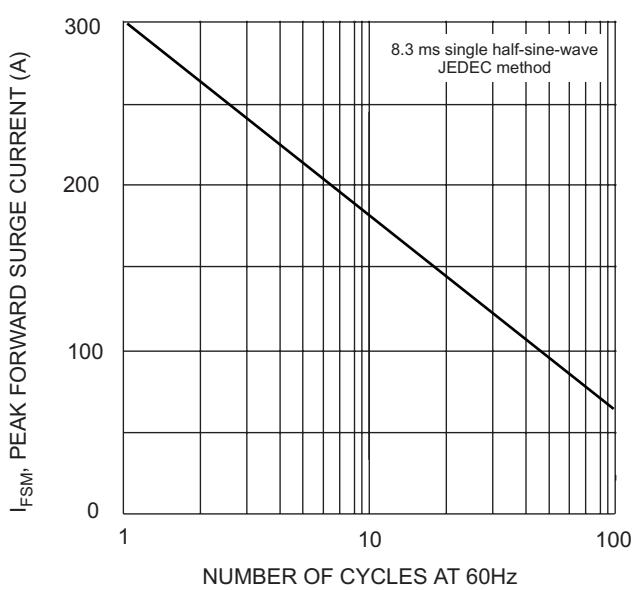
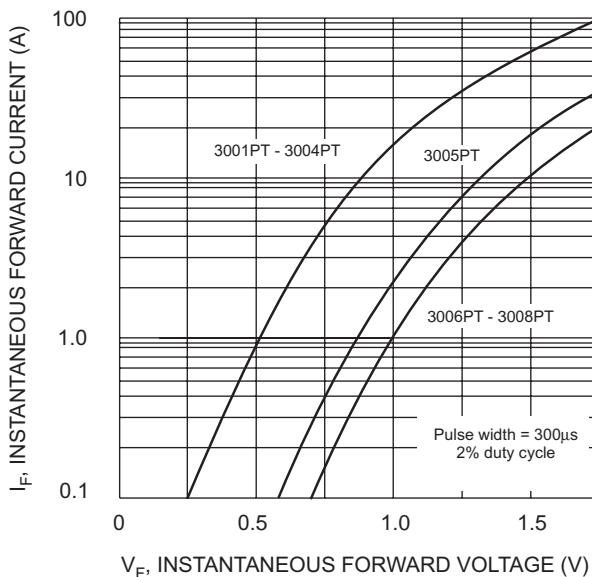
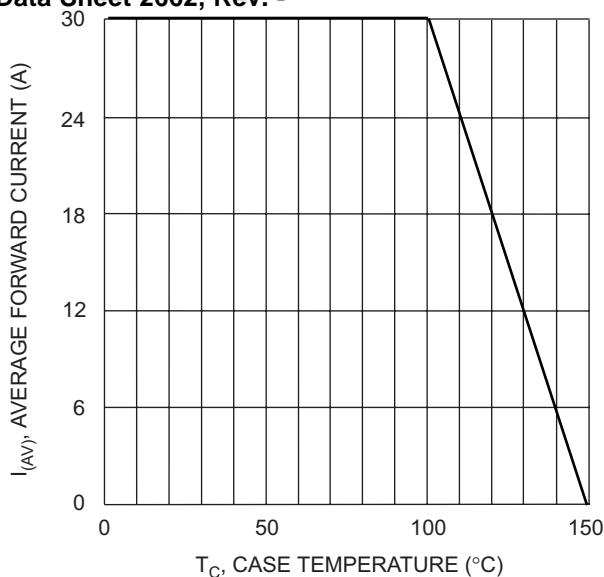
For capacitive load, derate current by 20%.

Characteristic	Symbol	HER 3001PT	HER 3002PT	HER 3003PT	HER 3004PT	HER 3005PT	HER 3006PT	HER 3007PT	HER 3008PT	Unit
Peak Repetitive Reverse Voltage	V _{RRM}									
Working Peak Reverse Voltage	V _{RWM}	50	100	200	300	400	600	800	1000	V
DC Blocking Voltage	V _R									
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	420	560	700	V
Average Rectified Output Current @ $T_C = 100^\circ\text{C}$	I _o					30				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					300				A
Forward Voltage @ $I_F = 15\text{A}$	V _{FM}				1.0		1.3		1.7	V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I _{RM}				10		500			µA
Reverse Recovery Time (Note 1)	t _{rr}				50			80		nS
Typical Junction Capacitance (Note 2)	C _j				175			145		pF
Operating and Storage Temperature Range	T _j , T _{TSG}				-55 to +150					°C

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 1.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Data Sheet 2662, Rev. -



Notes:

1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
2. Rise Time = 10ns max. Input Impedance = 50Ω.

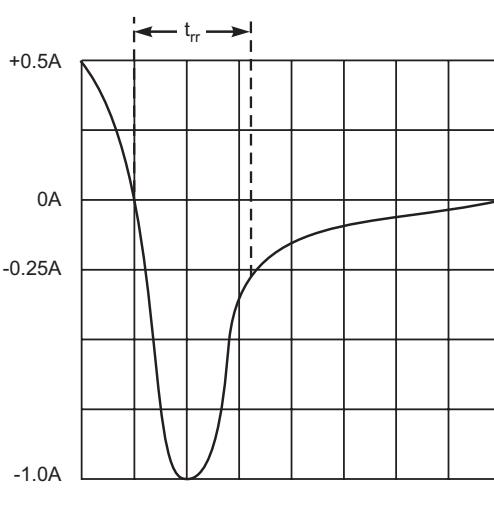


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit