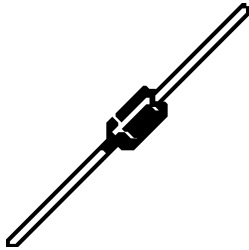
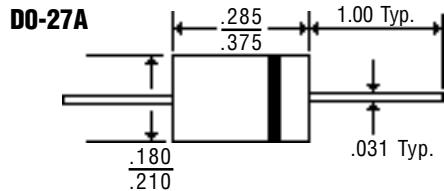


## Description



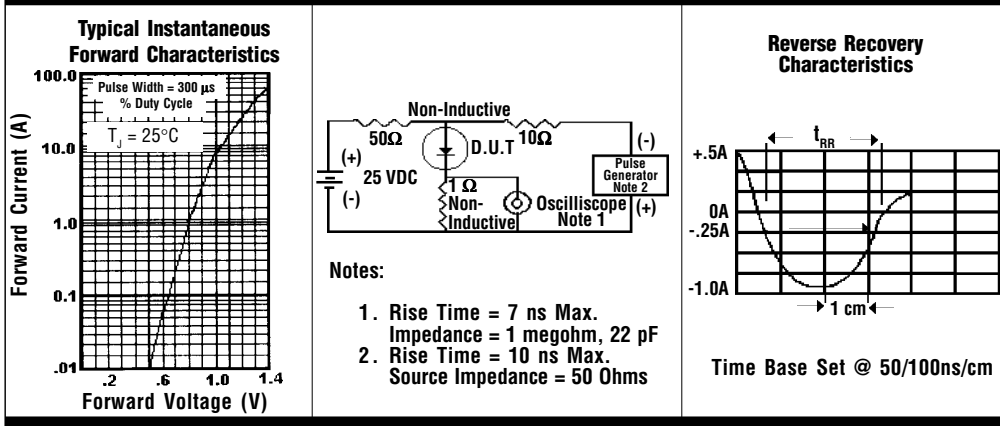
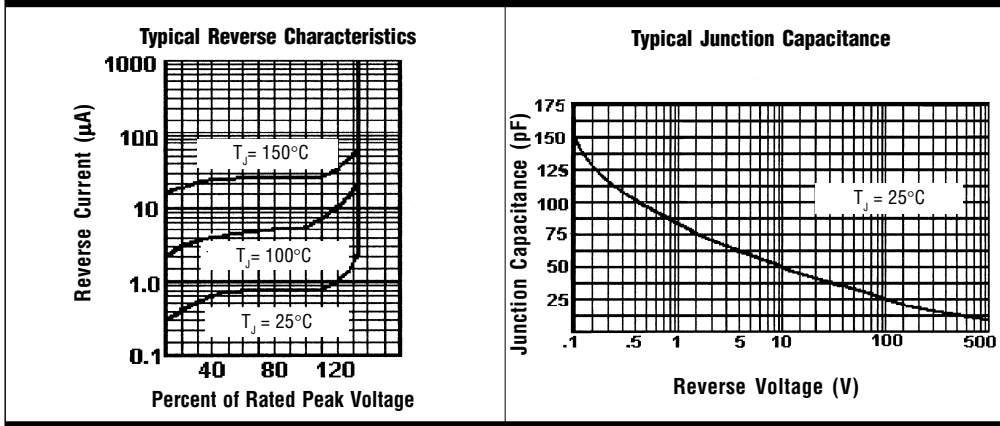
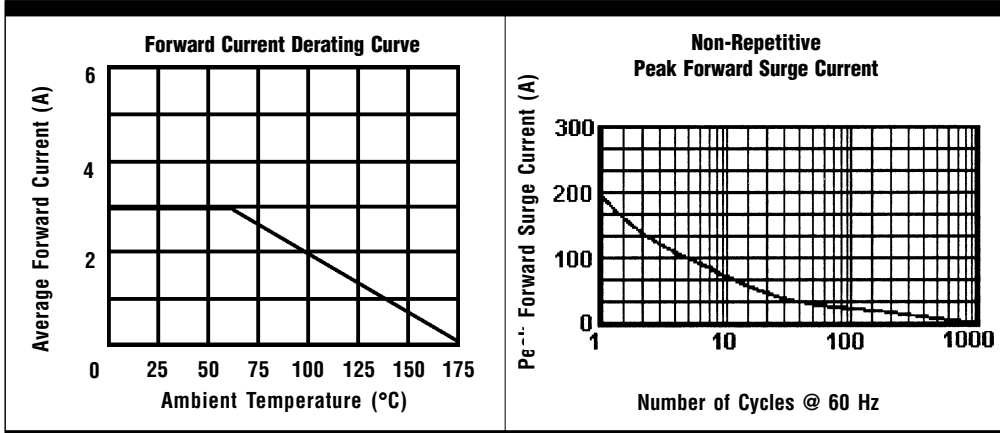
## Mechanical Dimensions



### Features

- LOW COST
- LOW LEAKAGE
- HIGH SURGE CAPABILITY
- MEETS UL SPECIFICATION 94V-0

<b>HER301 . . . 308 Series</b>									<b>Units</b>	
<b>Maximum Ratings</b>	<b>301</b>	<b>302</b>	<b>303</b>	<b>304</b>	<b>305</b>	<b>306</b>	<b>307</b>	<b>308</b>		
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	300	400	600	800	1000	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	210	280	420	560	700	Volts	
DC Blocking Voltage... $V_{DC}$	50	100	200	300	400	600	800	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ C$					3.0				Amps	
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp					150				Amps	
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 150								$^\circ C$	
<b>Electrical Characteristics</b>										
Maximum Forward Voltage @ 3.0A... $V_F$	< 1.0 >		1.3		< 1.7 >					Volts
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage					$T_A = 25^\circ C$ 10					$\mu Amps$
					$T_A = 100^\circ C$ 200					$\mu Amps$
Typical Junction Capacitance... $C_j$ (Note 1)					80					pF
Typical Thermal Resistance... $R_{\theta JC}$					1.0					$^\circ C / W$
Maximum Reverse Recovery Time... $t_{RR}$ (Note 2)	< 50 >		75							ns



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

**NOTES:** 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.  
2. Conditions:  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .