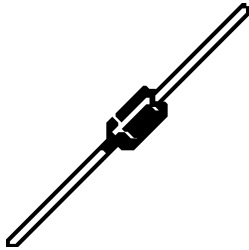
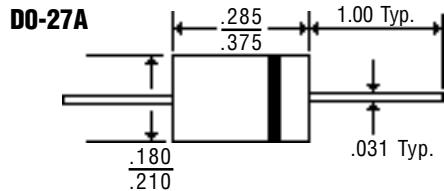


Description



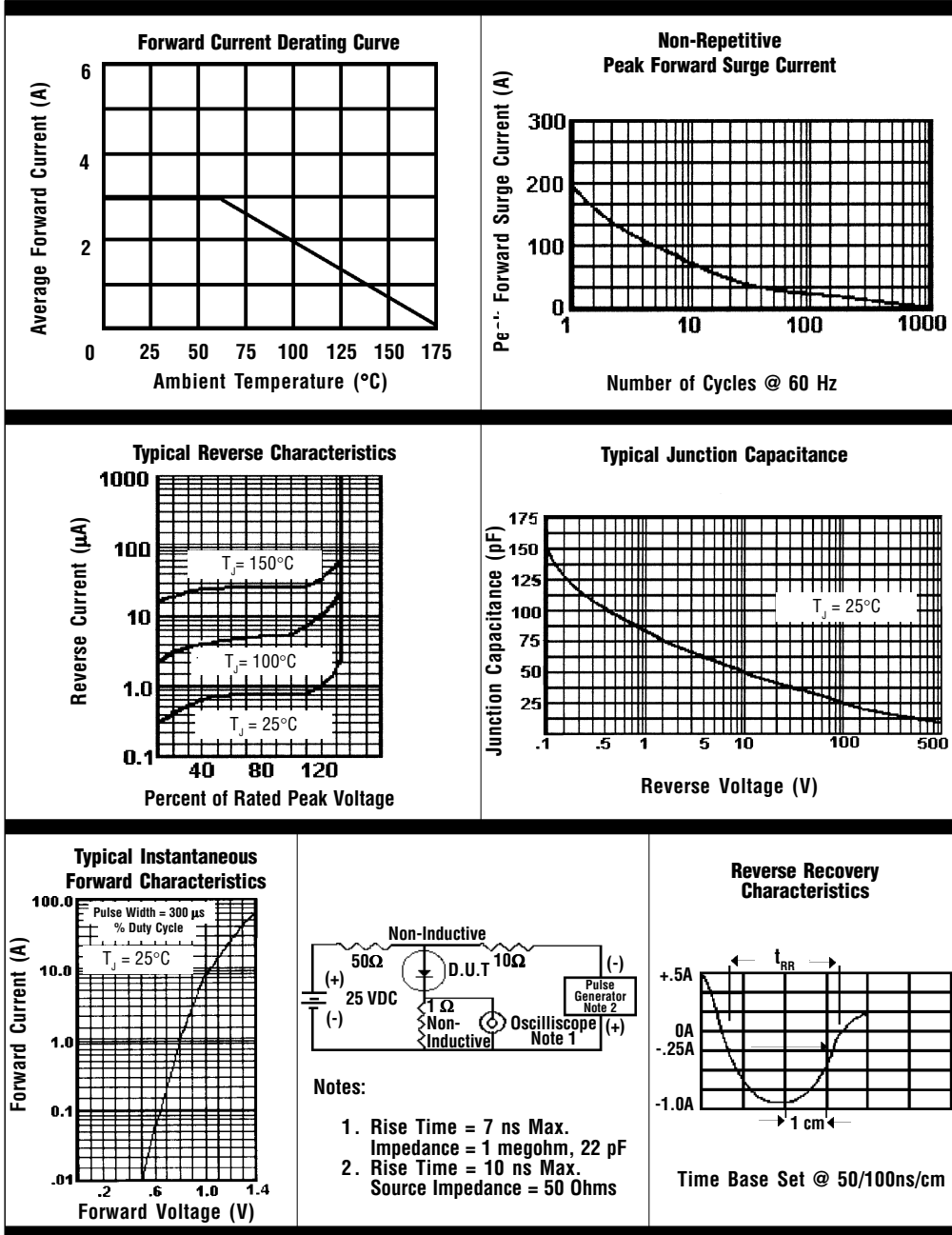
Mechanical Dimensions



Features

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

HER301 . . . 308 Series									Units
Maximum Ratings	301	302	303	304	305	306	307	308	
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				$^\circ C$
Electrical Characteristics									
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



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

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%.