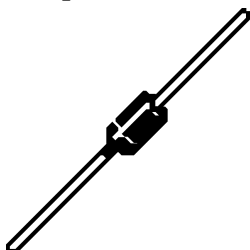
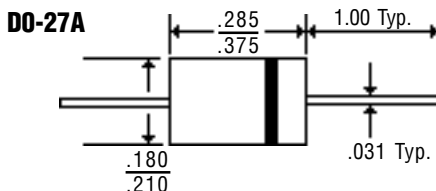


Description



Mechanical Dimensions



Features

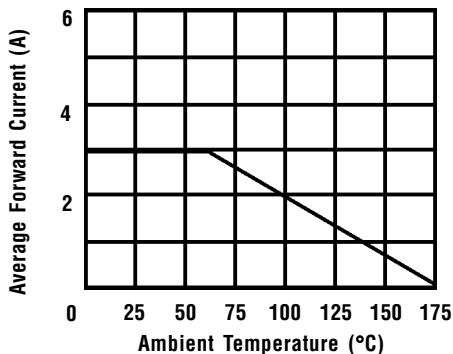
- **LOW COST**
- **LOW LEAKAGE**
- **HIGH SURGE CAPABILITY**
- **MEETS UL SPECIFICATION 94V-0**

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°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				°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					10				μAmps
					200				μAmps
Typical Junction Capacitance...C _J (Note 1)					80				pF
Typical Thermal Resistance...R _{θJC}					1.0				°C / W
Maximum Reverse Recovery Time...t _{RR} (Note 2)	< 50 >		< 75 >						ns

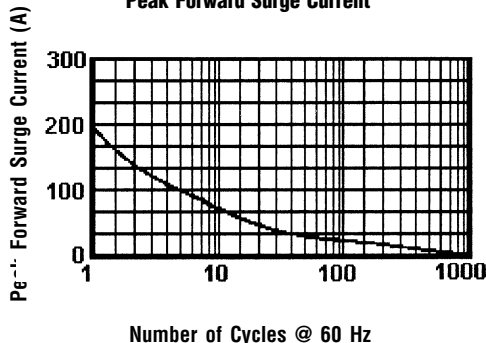
3.0 Amp SUPER FAST PLASTIC RECTIFIERS

HER301 . . . 308 Series

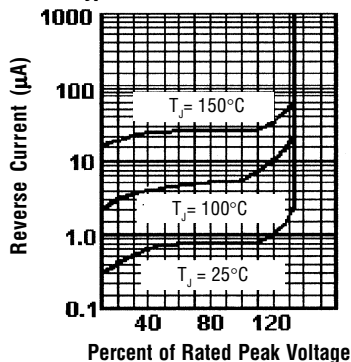
Forward Current Derating Curve



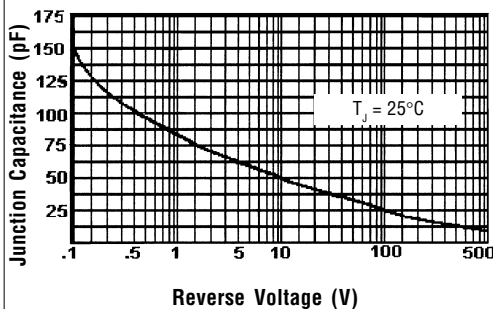
Non-Repetitive Peak Forward Surge Current



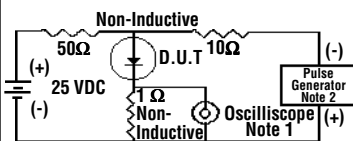
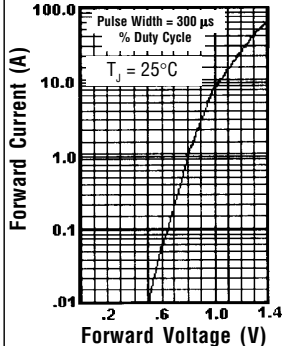
Typical Reverse Characteristics



Typical Junction Capacitance



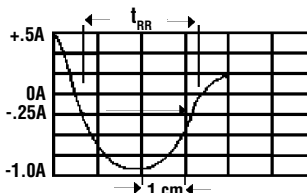
Typical Instantaneous Forward Characteristics



Notes:

1. Rise Time = 7 ns Max.
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 ns Max.
Source Impedance = 50 Ohms

Reverse Recovery Characteristics



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: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.