

## Features

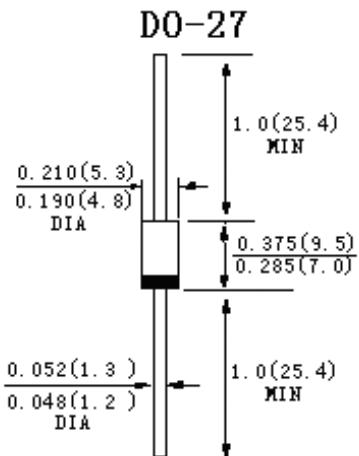
- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260°C/10seconds, 9.5mm lead length
- Lead and body according with RoHS standard

## Mechanical Data

**Case:** DO-27 Molded plastic

**Epoxy:** UL 94V-0 rate flame retardant

**Lead:** Pure tin plated, lead free



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

TYPE NUMBER	Symbols	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Units								
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 9.5mm lead length at $T_A=55^\circ C$	$I_{F(AV)}$	3.0								A								
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	150								A								
Maximum instantaneous forward voltage at 3.0A	$V_F$	1.0		1.3		1.7				V								
Maximum reverse recovery time ( Note1)	$T_{rr}$	50				70				nS								
Maximum DC reverse current at rated DC blocking voltage	$I_{R1}$	10								$\mu A$								
	$I_{R2}$	200								$\mu A$								
Operating junction temperature range	$T_J$	-55 to +150								°C								
Storage temperature range	$T_{stg}$	-55 to +150								°C								

**Note:** 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

## Characteristic Curves

Fig. 1 - Forward Current Derating Curve

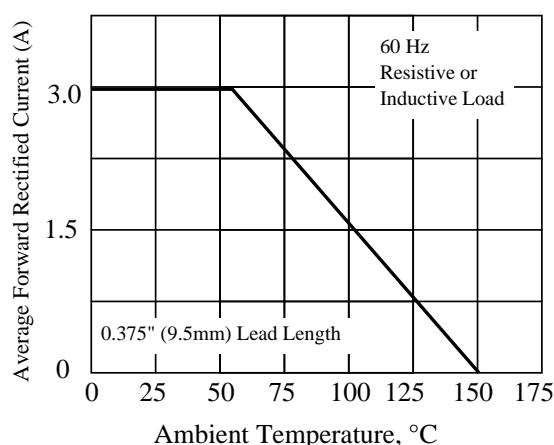


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

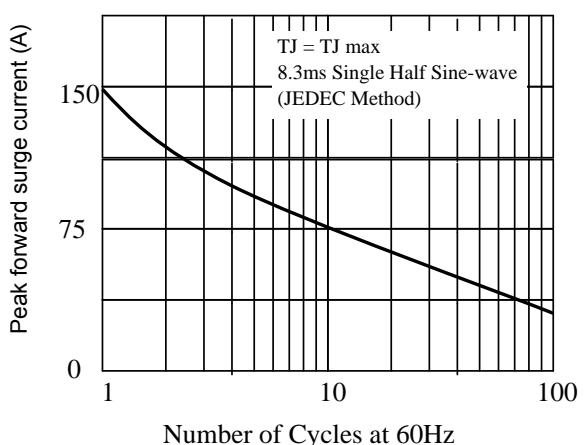


Fig 3. - Typical Instantaneous Forward Characteristics

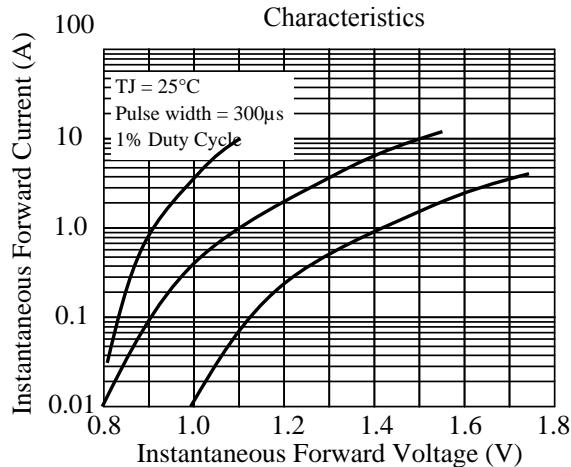


Fig 4. - Typical Reverse Characteristics

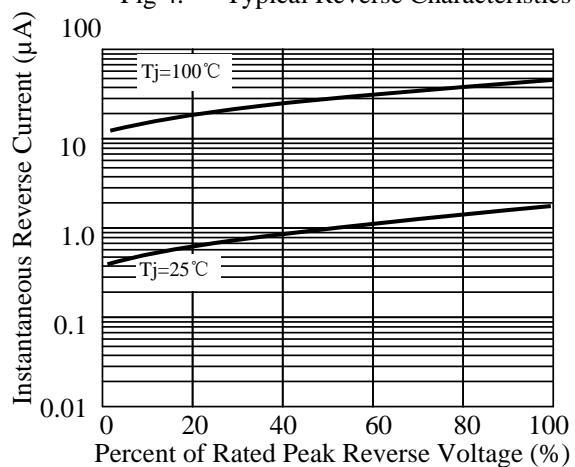


Fig 5. - Typical Junction Capacitance

