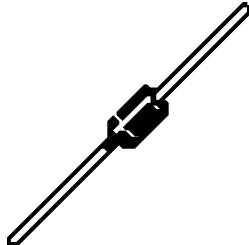


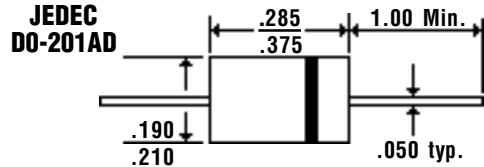


HER501 . . . 508 Series

Description



Mechanical Dimensions



Features

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

Electrical Characteristics @ 25°C.	HER501 . . . 508 Series								Units
Maximum Ratings	501	502	503	504	505	506	507	508	
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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ 5.0								Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	< 200		> < 150						Amps
Max. Forward Voltage @ 5.0A... V_F	< 1.0		> < ... 1.3 ... >		< 1.7				Volts
Max. DC Reverse Current... I_R $T_A = 25^\circ\text{C}$ 10								μAmps
Max. Full Load Reverse Current... I_R Average, Full Cycle .375" Lead Length, $T_L = 55^\circ\text{C}$ 150								μAmps
Typical Junction Capacitance... C_j (Note 1)	< 70		> < 50						pF
Max. Reverse Recovery Time... t_{RR} (Note 2)	< 50		> < 75						nS
Operating & Storage Temperature Range... T_J, T_{STRG} -65 to 150								°C

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