

## QUALITY & RELIABILITY ENGINEERING FIT and MTTF Calculation Report

<b>PN Family Series</b>	TBS606 – TBS610			
Part Description Package Type	6A, 600V - 1000V Standard Bridge Rectifier TBS			
Test Variables:				
Stress Test No. of failures Sample Size Test Duration Total device hours Accelerated Temp (T Operating Temp (Tu) Activation Energy (Ea Confidence Level Boltzman's Constant	a)		HTRB 0 231 1000 231000 150 55 0.7 90 8.617E-05	units units hours hours ° C ° C eV % eV / °K
Calculations:				
Chi squared value		=	4.6051702	@ 90% Confidence Level
Failure Rate (@accelerated		= -		squared value) Size)*(Test Duration) <b>FIT</b>
Acceleration Factor, AF		_	e <sup>(Ea/k)(1/Tu - 1/ <b>2.604E+02</b></sup>	Га)
Results:				
Failure Rate (@operatin		=	(Failure Rat 38	e @accelerated condition) / (AF) FIT
Mean Time to Failu		=	26124947 2982	hours years