Static Characteristics T_j = 25 °C unless otherwise stated

Parameter	Conditions		Symbol	Min	Typ	Max	Unit
							V/μs
							V/μs

Typical Characteristics



Fig.1. Maximum on-state dissipation, Ptot, versus rms on-state current, $I_{T(RMS)}$,

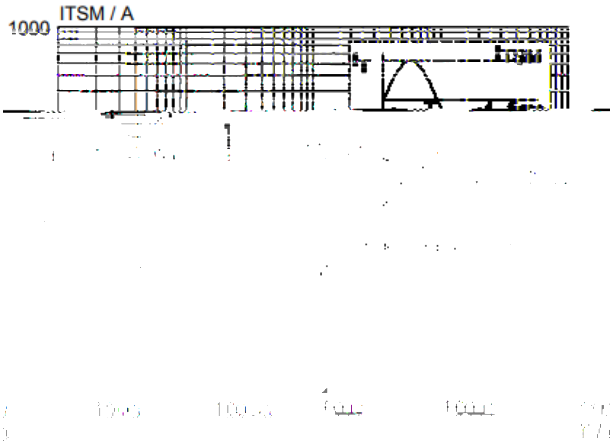

Fig.2. Maximum permissible non-repetitive peak on-state current I_{TSM}, versus pulse width

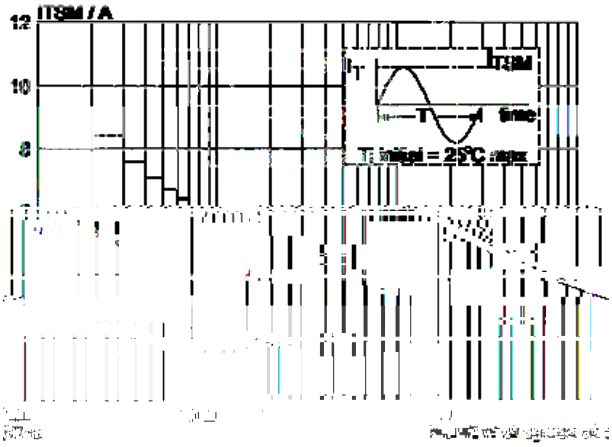

Fig.3. Maximum permissible non-repetitive peak on-state current I_{TSM}, versus number of cycles, for sinusoidal currents, f = 50 Hz.

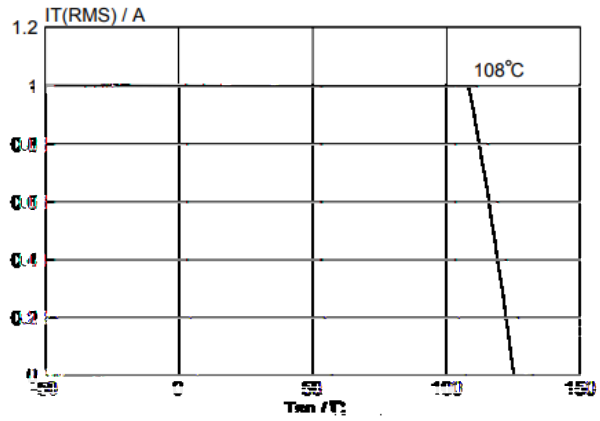

Fig.4. Maximum permissible rms current $I_{T(RMS)}$, versus solder point temperature Tsp.

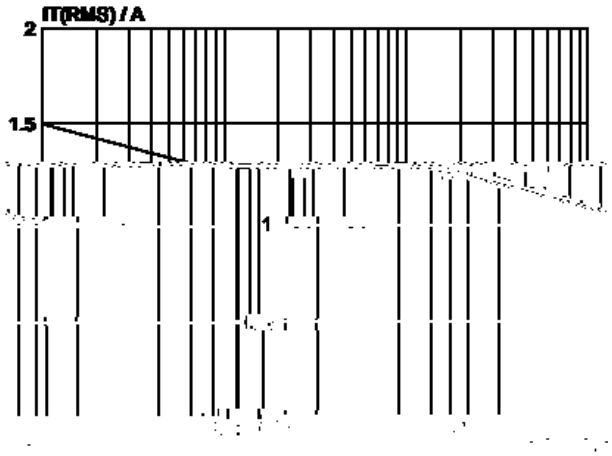

Fig.5. Maximum ermissible repetitive rms n-state current $I_{T(RMS)}$, versus surge duration, for sinusoidal currents, f = 50Hz; T_{sp}

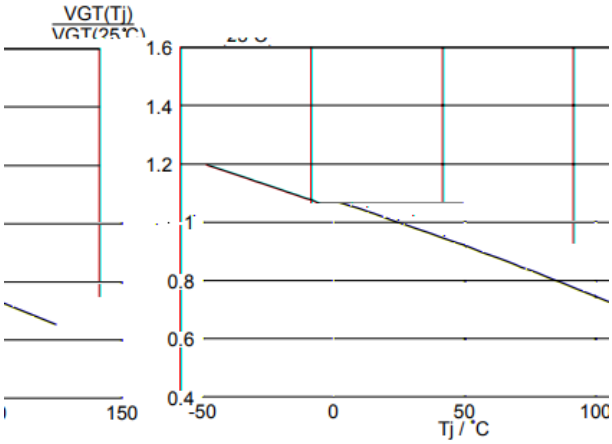

Fig.6.Normalised gate trigger voltage $V_{GT}(T_j)/V_{GT}(\quad)$, versus junction temperature T_j

Typical Characteristics

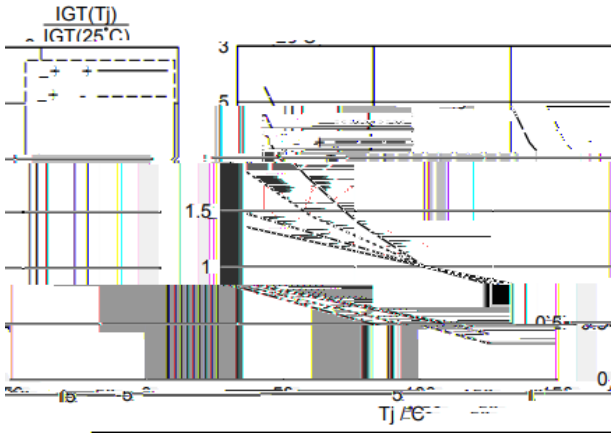

Fig.7. Normalised gate trigger current $I_{GT}(T_j)$/ I_{GT} $_{j}$.

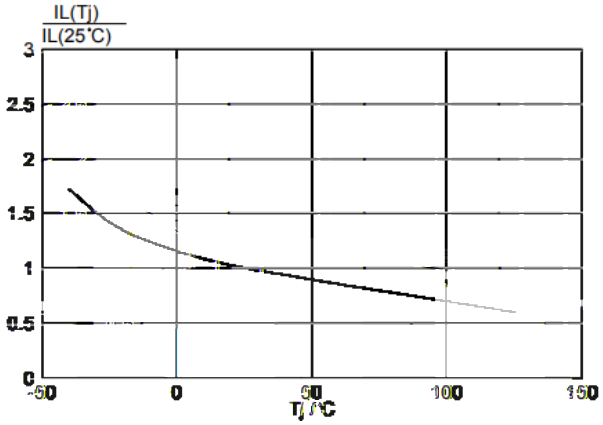

Fig.8. Normalised latching current $I_L(T_j)$/ I_L $_{j}$.

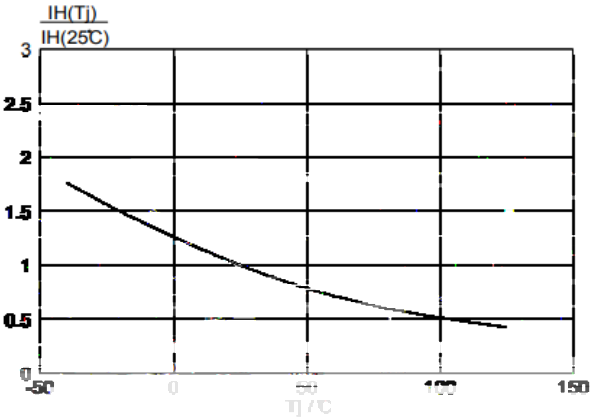

Fig.9. Normalised holding current $I_H(T_j)$/ I_H $_{j}$.

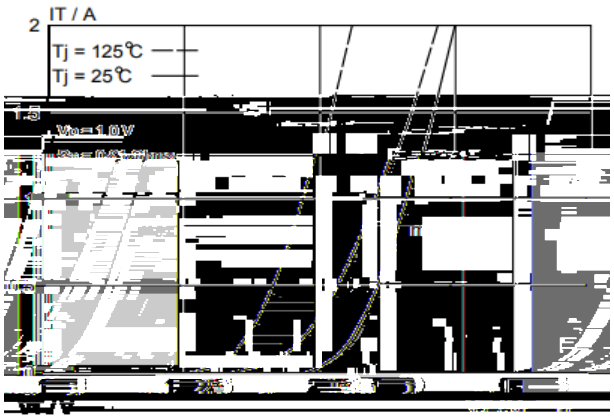

Fig.10. Typical and maximum on-state characteristic.

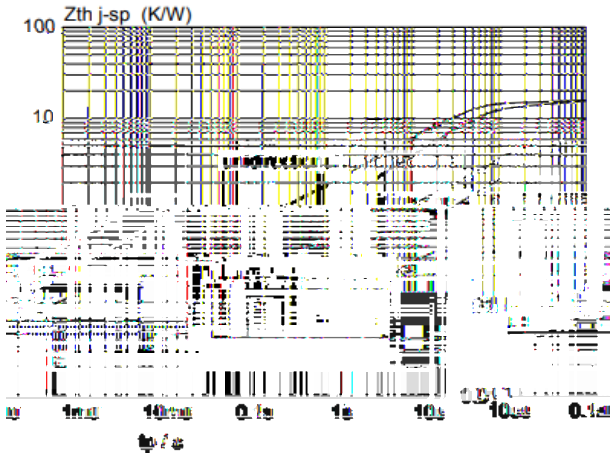

Fig.11. Transient thermal impedance $Z_{th\ j\text{-}sp}$, versus pulse width tp.

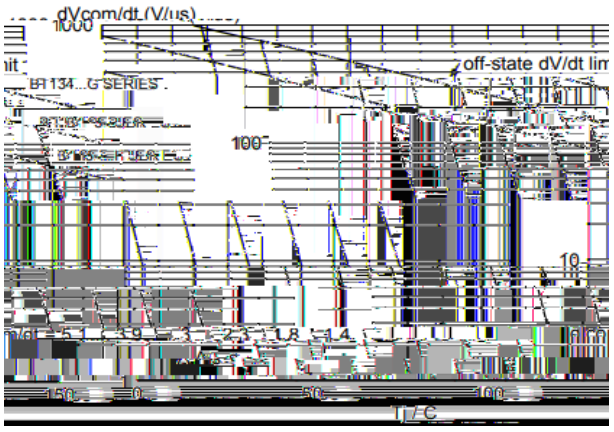

Fig.12. Typical commutation dV/dt versus junction temperature, parameter commutation dI_T/dt. The triac should commutate when the dV/dt is below the value on the appropriate curve for pre-commutation dI_T/dt.

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website https://www.yfwdiode.com, or consult YFW sales office for further assistance.