

8H TRIACS

800 V, 150 °C 8H Triacs for Industrial and Building Automation



8H Triacs maximize current density or reduce the heatsink size by 50%

Optimized for Industrial, Building and Residential appliances and based on ST's new high temperature technology, our 800 V 8H Triacs can work at 150 °C without compromise.

Enabling designers to maximize current density or reduce the heatsink size by up to 50%, these triacs are the right choice to run in very hot, confined environments and improve the reliability of your system.

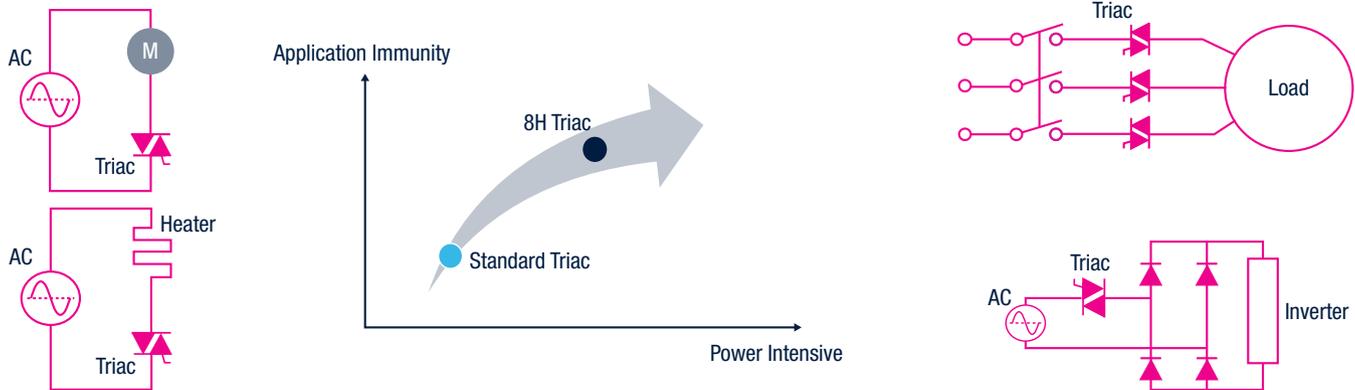
KEY BENEFITS

- Allow system size reduction
 - Operating max $T_J = 150\text{ °C}$
 - Low on state voltage V_{TM}
- Running up to 400 V_{RMS} including 3-phase AC line applications
 - $V_{DRM}/V_{RSM} = 800\text{ V @ }150\text{ °C}$
- No spurious switching even in high EMI environment
 - $V_{DSM}/V_{RSM} = 900\text{ V}$
 - dV/dt immunity: 2000 V/ μs @ $T_J = 150\text{ °C}$
 - High noise immunity 6 kV (IEC-61000-4-4)
- Decrease Standby losses
 - Lower leakage current @ 150 °C
 - High stability of leakage current over time @ 800 V and 150 °C

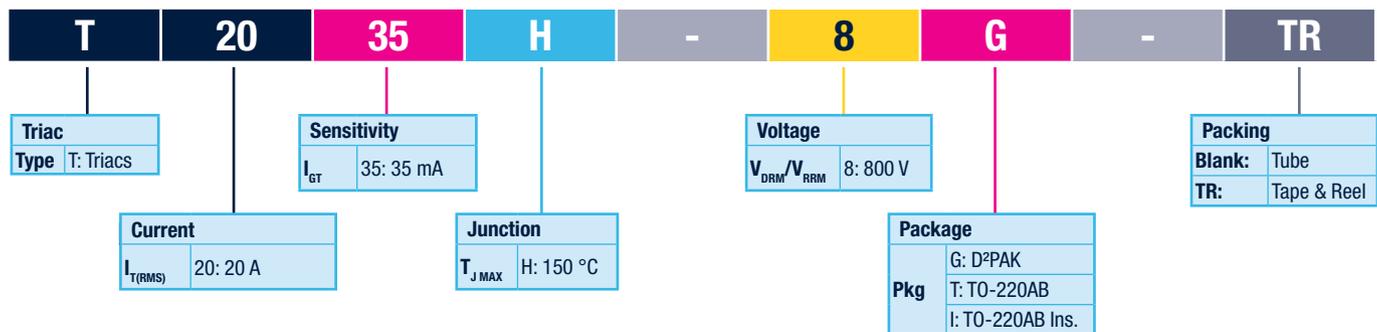
KEY APPLICATIONS

- Home/Building automation
 - Smart AC plugs
 - HVAC, Water heaters
 - Room heaters
 - Lighting
 - Coffee machines
- Smart industry
 - AC Motor control
 - Automation I/O control
 - Heating control

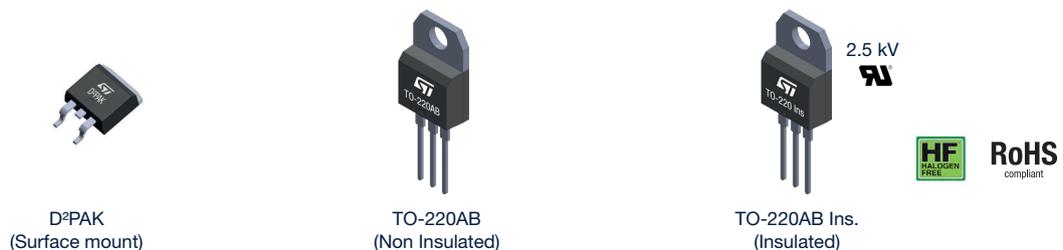
Application benefiting from high-performance 8H Triacs



Naming and Product Table



Generic Part Number	Package			$I_{T(RMS)}$ A max	T_J °C max	V_{DRM}/V_{RRM} V max	I_{GT} mA max	I_{TSM} A max	dV/dt V/μs @ 150 °C min	(dl/dt)c A/ms @ 10 V/μs, @ 150 °C min
	TO-220AB	TO-220AB Ins.	D ² PAK							
T835H-8	T	I	G	8	150	800	35	80	2000	8
T1235H-8	T	I	G	12				120		12
T1635H-8	T	I	G	16				160		16
T2035H-8	T	I	G	20				200		20
T3035H-8	T	I	G	30				270		25



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