



life.augmented



H-series Triacs

8H & 6H



Discrete and Filter Division

Analog, Power & Discrete, MEMS et Sensors

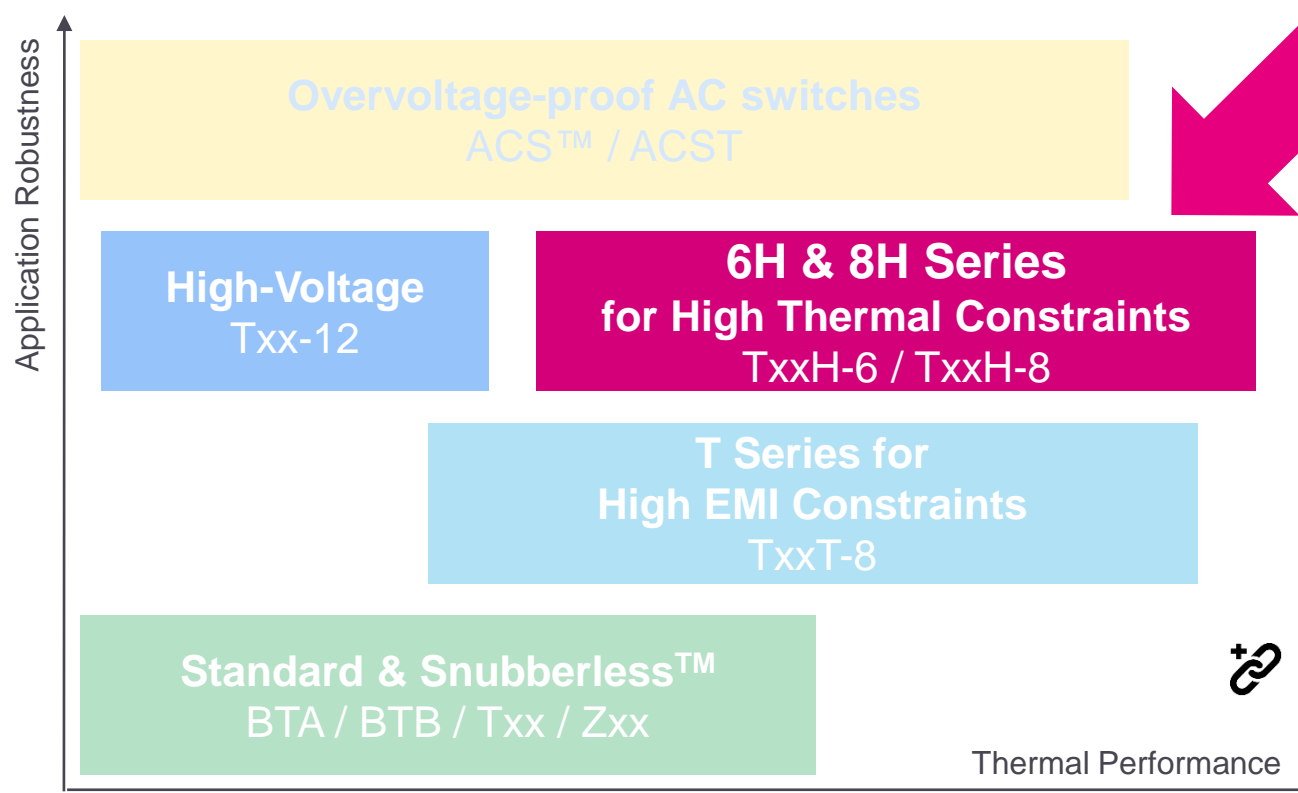


6H & 8H Triacs in ST Portfolio

The most complete range of triacs and AC switches



**Bidirectional
Conducting**



H-series

Electrical specifications:

- V_{DRM} : 600 to 800 V
- $I_{\text{T(RMS)}}$: 6 to 50 A
- I_{GT} : 10 to 50 mA
- T_{Jmax} : 150 °C



Applications served with 6H & 8H Triacs





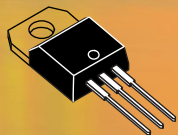
Key benefits of 6H & 8H Triacs

H-series maximize current density and reduce heatsink size by 50%

High noise immunity up to 6kV in application

Control 8-30A load at higher case temperature

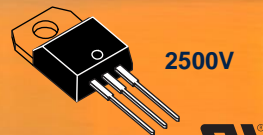
Full rating – reliability at both 800V and 150°C



TO-220AB



D²PAK



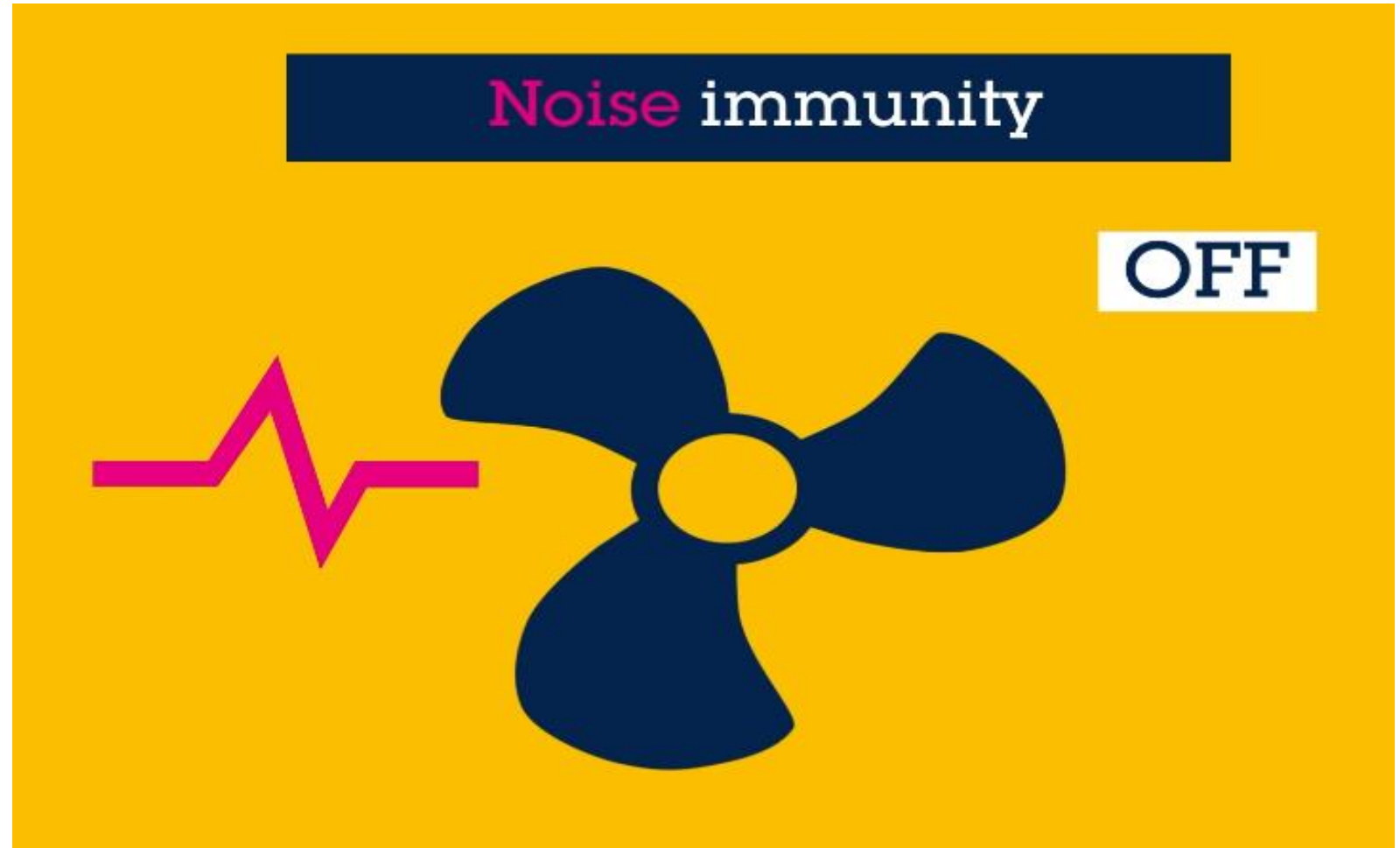
TO-220AB Ins.



Increase functional robustness

**Robust dynamic
turn off
commutation at
150°C**

**High noise
immunity at 150°C**
—
static dV/dt





Heatsink size reduction

**Reduce
application
size
allowing
more
features**





800 V blocking voltage with 8H Triacs

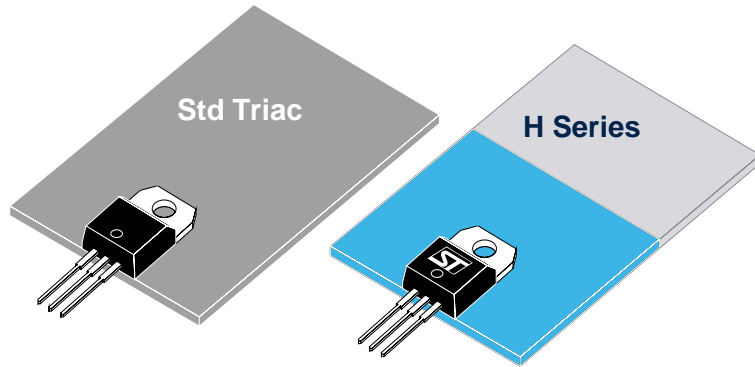
**Extra margin
of Blocking
voltage
up to
 $T_J = 150\text{ }^{\circ}\text{C}$**

**Work directly on the grid
up to 400V AC**





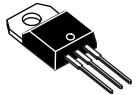
6H & 8H Triacs portfolio



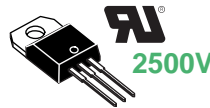
-50%
HEATSINK SIZE



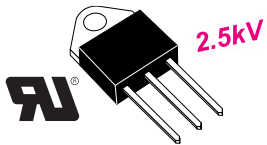
D²PAK



TO-220AB



TO-220AB Ins.



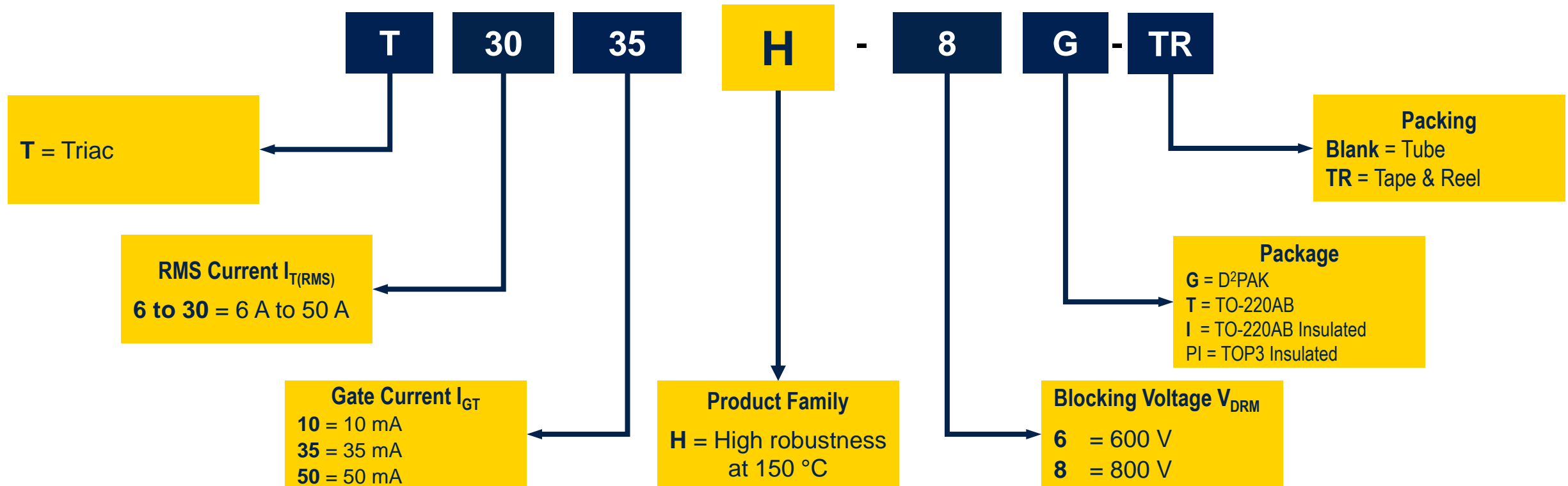
TOP3 Insulated



life.augmented

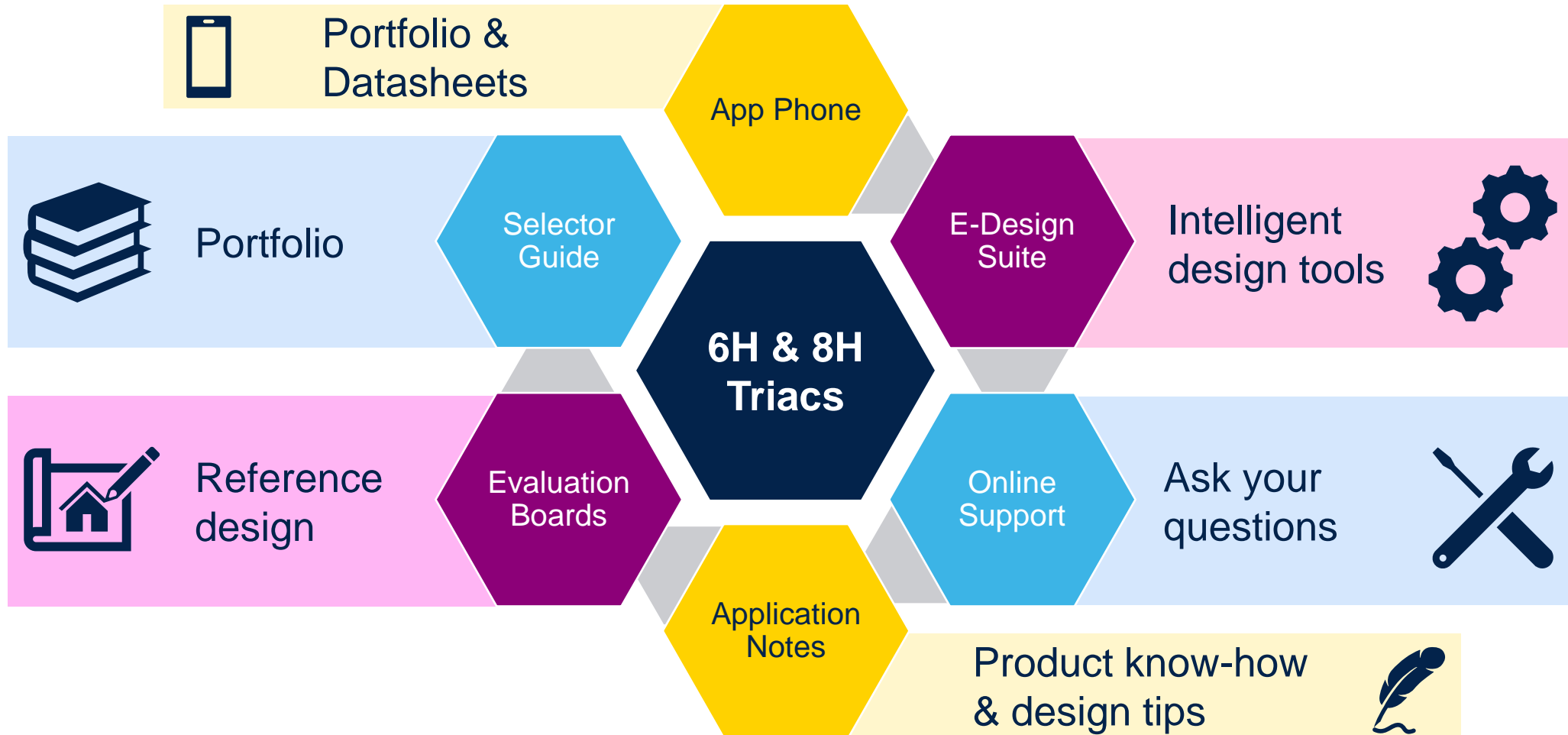
	Part Number	Package				I _{T(RMS)} A	T _J °C	V _{DRM} , V _{RRM} V	I _{GT} mA	I _{TSM} A	dV/dt V/μs @150°C	(di/dt) _c A/ms @10V/μs, @150°C	
		TO-220AB	TO-220AB Insulated	D ² PAK	TOP 3								
6H-Series	600V, 10mA Gate, Logic-Level Triacs												
	T610H-6	T				6	150	600	10	60	75	2.3	
	T810H-6	T		G		8				80	75	3	
	T1010H-6	T		G		10				100	75	3.8	
	T1610H-6	T				16				160	100	3	
	600V, 35mA Gate, Snubberless Triacs												
	T835H-6	T	I	G		8	150	600	35	80	1000	11	
	T1035H-6	T	I	G		10				100		13	
	T1235H-6	T	I	G		12				120		16	
	T1635H-6	T	I	G		16				160		21	
	T2035H-6	T	I	G		20				200		27	
	T3035H-6	T	I	G		30				270		33	
	600V, 50mA Gate, Snubberless Triacs												
	T850H-6	T	I	G		8	150	600	50	80	1500	14	
	T1050H-6	T	I	G		10				100		18	
	T1250H-6	T	I	G		12				120		21	
	T1650H-6	T	I	G		16				160		28	
	T2050H-6	T		G		20				200		36	
	T3050H-6	T	I	G		30				270		44	
	8H-Series	800V, 35mA Gate, Snubberless Triacs											
		T835H-8	T	I	G		8	150	800	35	80	1500	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		
T5035H-8					PI	50	500				2000		40

6H & 8H Triacs part numbering format





Want to know more ?



Our technology starts with You



Find out more at www.st.com/en/thyristor-scr-ac-switches.html

© STMicroelectronics - All rights reserved.

ST logo is a trademark or a registered trademark of STMicroelectronics International NV or its affiliates in the EU and/or other countries.

For additional information about ST trademarks, please refer to www.st.com/trademarks.

All other product or service names are the property of their respective owners.



life.augmented