



WeEn
WeEn Semiconductors

Power Efficiency
for A Cooler Planet

01

Thyristors

AC THYRISTOR TRIACS

AC THYRISTORS

TEMPERATURE AND OVERLOAD
PROTECTED TRIACS (TOPTriac)

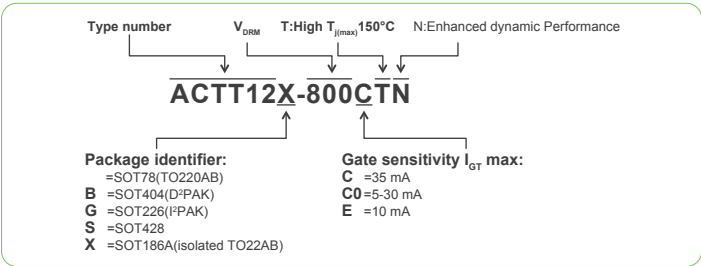
THREE-QUADRANT Hi-Com TRIACS

FOUR-QUADRANT TRIACS

SILICON CONTROLLED RECTIFIERS

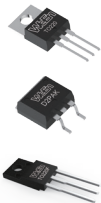
SILICON CONTROLLED RECTIFIER
POWER MODULES

AC Thyristor Triacs part numbering

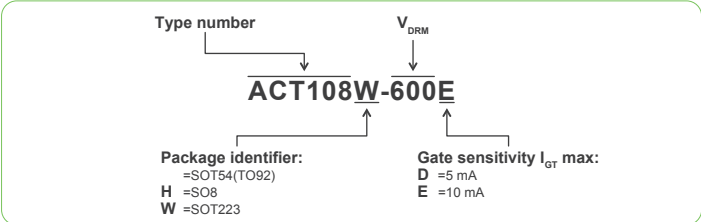


In the spotlight

- AC Thyristor Triacs ACTT10 series, ACTT12 series**
- Planar passivated with overvoltage clamping function
 - High energy surge handling
 - Very high dV/dt for maximum immunity to false triggering
 - High $T_j(max)$ to 150°C



AC Thyristors part numbering



In the spotlight

- AC Thyristors ACT108-800E, ACT108W-800E**
- Planar passivated with overvoltage clamping function
 - Working voltage increased to 800V
 - Enhanced overvoltage clamping capability
 - High false trigger immunity



In the spotlight

- TOPTriac TOPT12, TOPT16**
- Planar passivated for voltage ruggedness & reliability
 - Over temperature & over load protection
 - No need to over-specify triac and heatsink
 - Avoid loss of control at high temperature
 - Status monitoring with help of microcontroller



AC THYRISTOR TRIACS

3Q Hi-Com power switches, overvoltage protection

Types in **bold blue** represent new products
Types in **bold red italic** represent products in development
N: enhanced Noise immunity T: high T_j max 150°C

I_{GT} key:
C 35mA
C0 5-30mA
E 10mA

$I_{T(RMS)}$ (A)	V_{DRM} (V)	I_{GT} (max) (mA)	SOT223 SC-73	TO-252 SOT428 DPAK	TO-263 SOT404 D ² PAK	TO-262 SOT226A I ² PAK	TO-220 SOT78	TO-220F SOT186A SC-67
2	800	E ETN	ACTT2W	ACTT2S ACTT2S				ACTT2X ACTT2X
4	800	C/E CTN/ETN		ACTT4S ACTT4S ACTT6S ACTT6S				ACTT4X
6	800	E CTN CN			ACTT6B	ACTT6G	ACTT6	ACTT6X
8	800	C0/C0T/CTN			ACTT6B ACTT8B		ACTT6	ACTT6X
10	800	C/CT CTN					ACTT8 ACTT10	ACTT8X ACTT10X
12	800	C/CT CTN			ACTT10B ACTT12B		ACTT10 ACTT12	ACTT10X ACTT12X
16	800	CTN		ACTT12S	ACTT16B		ACTT12 ACTT16	ACTT12X ACTT16X

AC THYRISTORS

2Q Hi-Com power switches, exclusive negative gate triggering, common mounting base, overvoltage protection

Types in **bold blue** represent new products
Types in **bold red italic** represent products in development

I_{GT} key:
D 5mA
E 10mA

$I_{T(RMS)}$ (A)	V_{DRM} (V)	I_{GT} (max) (mA)	MS-012 SOT96-1 SO8	SOT223 SC-73	SOT223-2L	TO-92 SOT54
0.2	600	D	ACT102H			
0.8	600	D/E		ACT108W		ACT108
	800	E		ACT108W		ACT108
1	800	E		ACT110W	ACT110V	ACT110

TEMPERATURE AND OVERLOAD PROTECTED TRIACS (TOPTriac)

2Q Hi-Com power switches, exclusive negative gate triggering, over-temperature protection

Types in **bold blue** represent new products
Types in **bold red italic** represent products in development

I_{GT} key:
C0 5-35mA

$I_{T(RMS)}$ (A)	V_{DRM} (V)	I_{GT} (max) (mA)	TO-263 SOT404 D ² PAK	TO-220 SOT78
12	800	C0		TOPT12
16	800	C0	TOPT16B	TOPT16