

Main applications

Consumer



- AIR CONDITIONING
Motor Speed Control
- TELEVISION
Standby
Power Supply
- SAFETY SYSTEMS
GFCI's
ALCI's
- HOME APPLIANCES
Motor Speed Control
Actuator Controls
Valve Controls
Safety Switches
- SECURITY SYSTEMS
Smoke Alarms
Intrusion Alarms
Electronic Locks
- FAN & COOLERS
Motor Speed Control
- HEATING
Power Control
Airflow Controls
- LIGHTING CONTROL
Dimmers
Security Lights
Electronic Ballast
Electronic Starters
Christmas Lights

Industrial



- PROGRAM CONTROLLERS
Switches
- HEATERS
Switches
Phase Controllers
- PLC's
- MOTOR SPEED CONTROLLERS
Phase Controllers
- SOLID STATE RELAY
Switch
- PROXIMITY SWITCHES
- GAS IGNITION SYSTEM
- FAN & COOLERS
Motor Speed Control
- SMALL ENGINE IGNITORS

Automotive



- ENGINE CONTROLS
Ignitors
- SECURITY
Burglar Alarms

Data processing

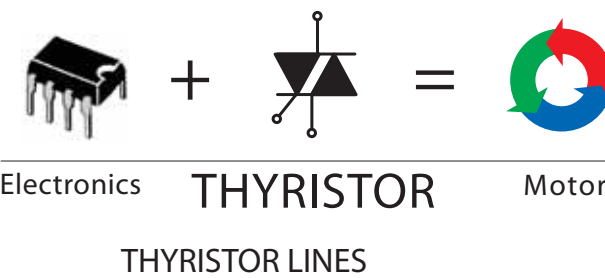


- POWER SUPPLIES
Automatic Voltage
Switches
Protective Circuits

Fagor Electrónica's Thyristors offer you

- High Performance
- Excellent Quality
- High Reliability
- Excellent Service

The link between the micro-electronic control and the outside world is a Thyristor.



Recognized worldwide for technological expertise, on-time deliveries, customer-driven service and total quality culture, Fagor Electrónica is ready to become your preferred supplier through our performance and commitment.

Thyristor lines



SCR

- Sensitive Gate SCRs
- Standard SCRs
- Surface Mount SCRs



TRIAC

- Logic Level TRIACs
- Standard TRIACs
- High Commutation TRIACs
- Surface Mount TRIACs



DIAC

- Standard DIAC
- Surface Mount DIAC

November 2008

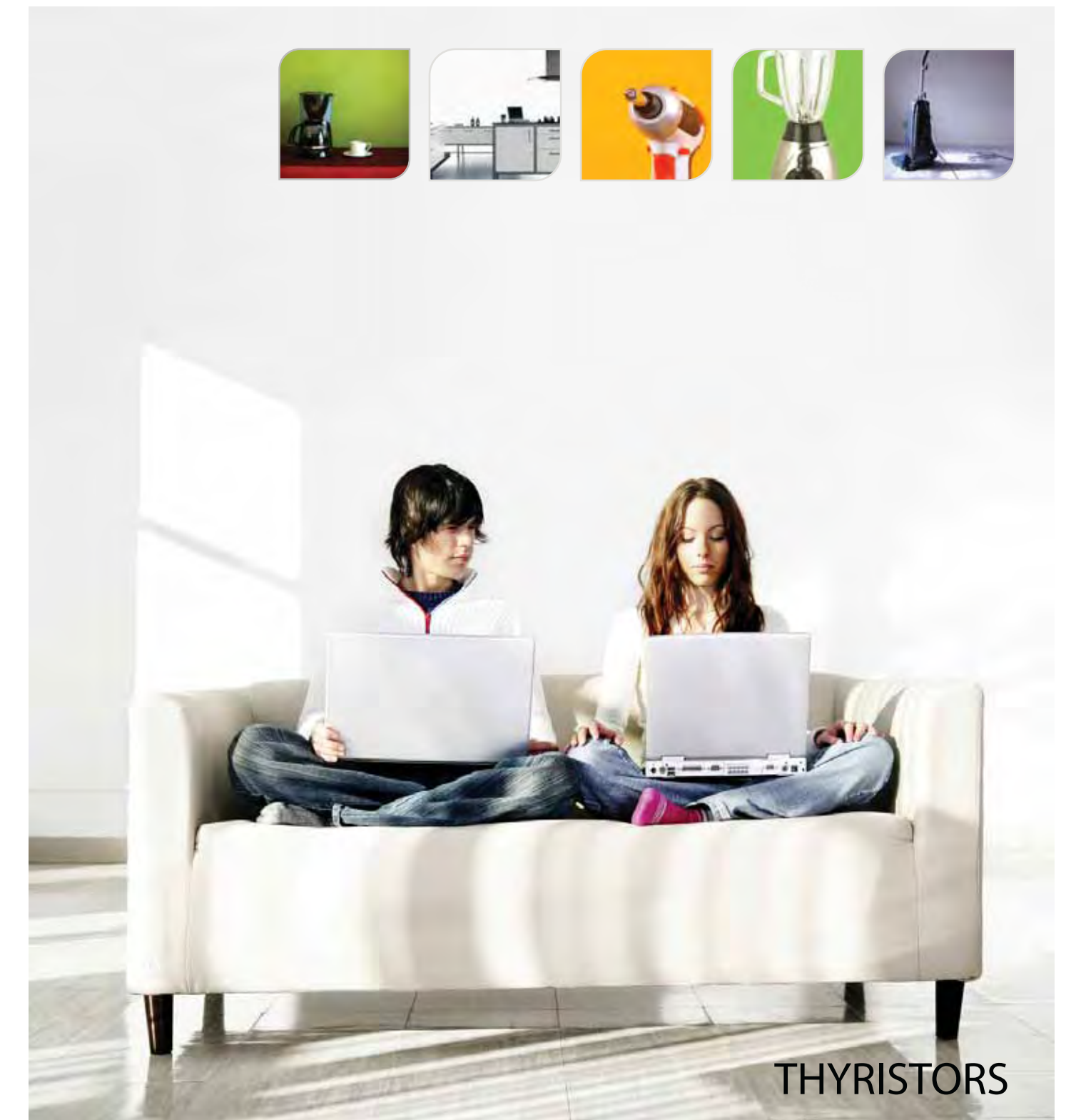


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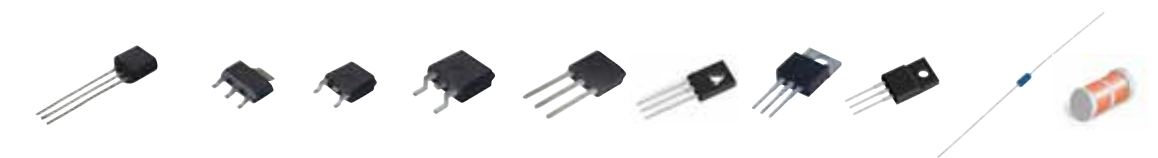
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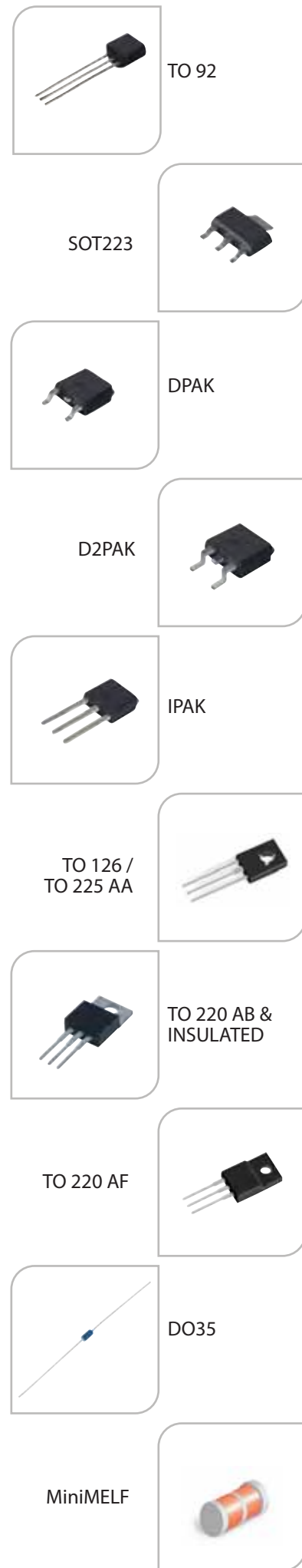
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- TRIACs
- SCRs
- DIACs



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Logic Level TRIACs

The Logic Level TRIACs series has been developed to provide very high switching performance with a low gate current drive (<10 mA), allowing direct drive from microcontrollers.

Standard TRIACs

Standard TRIACs are ideal for general purpose switching and phase control applications. Available with various gate sensitivities to fit many application requirements, they are used either as ON/OFF switches (in applications like washing machines, solid state relays, food processors, ...), or as variable load controllers (as in light dimmer, variable speed fans, hand tools etc.).

High Commutation TRIACs

In most applications High Commutation TRIACs do not need an RC snubber network thanks to their high commutation capability. Typical applications are motor control and other circuits with inductive loads.

Sensitive Gate SCRs

Sensitive Gate SCRs are easy to drive due to their very low gate current triggering. This high gate sensitivity allows direct triggering from the outputs of low power Microcontrollers or logic ICs, simplifying drive circuit design and reducing component and assembly cost. They are suitable for low power applications where low consumption is mandatory.

Standard Gate SCRs

Standard Gate SCRs use a high performance glass passivated technology. This general purpose family of Silicon Controlled Rectifiers is suitable for use in power supplies.

DIACs

A DIAC is a full-wave or bi-directional thyristor. It is used as a trigger diode with fixed voltage reference along with SCRs, TRIACs and Transistors.

DIACs

Package	Part Number	I _{TRM} max A	V _{BO}			I _{BO} µA
			min. V	Typ. V	max. V	
DO35	FD0200YR	2	28	32	36	50
	FD0201YR	2	30	32	35	15
	FD0220YR	2	28	32	36	100
	FD0200YM	2	28	32	36	50
MiniMELF	FD0201YM	2	30	32	35	15

TRIACs

Package	I _{TRMS} (A)	V _{DRM/RRM} (V)	Logic Level TRIACs							Standard TRIACs				High Commutation TRIACs		
			I _{GT} max-Q1-Q3 I _{GT} max-Q4	3 mA	3 mA	5 mA	5 mA	7 mA	10 mA	10 mA	25 mA	25 mA	50 mA	50 mA	25 mA	35 mA
TO92	1	200 / 800*	FT0102.A	FT0103.A	FT0104.A	FT0105.A	FT0107.A	FT0109.A	FT0110.A							
SOT223	1	200 / 800*	FT0102.N	FT0103.N	FT0104.N	FT0105.N	FT0107.N	FT0109.N	FT0110.N							
DPAK	4	200 / 800					FT0407.D	FT0408.D	FT0410.D	FT0411.D	FT0414.D	FT0416.D				
	8	200 / 800					FT0807.D	FT0808.D								
IPAK	4	200 / 800					FT0407.I	FT0408.I	FT0410.I	FT0411.I	FT0414.I	FT0416.I				
	8	200 / 800					FT0807.I	FT0808.I								
TO225AA	4	200 / 800				FT0405.K	FT0407.K	FT0408.K	FT0409.K	FT0410.K						
	8	200 / 800					FT0807.G	FT0809.G	FT0810.G	FT0813.G	FT0814.G					
D2PAK	12	200 / 800					FT1208.G	FT1209.G	FT1210.G	FT1213.G	FT1211.G	FT1214.G	FT1216.G			
	16	200 / 800					FT1609.G		FT1610.G	FT1613.G	FT1614.G	FT1616.G				
	25	200 / 800									FT2514.G	FT2516.G				
	4	200 / 800				FT0404.W	FT0405.W	FT0407.W	FT0408.W	FT0409.W	FT0410.W		FT0414.W			
	6	200 / 800				FT0605.W	FT0608.W	FT0609.W	FT0610.W	FT0618.W	FT0617.W	FT0611.W	FT0614.W	FT0616.W		
	8	200 / 800	FT0803.W			FT0807.W	FT0808.W	FT0809.W	FT0810.W	FT0818.W	FT0813.W	FT0817.W	FT0814.W	FT0816.W		
TO220F	10	200 / 800				FT1008.W	FT1009.W		FT1010.W	FT1018.W	FT1013.W	FT1017.W	FT1011.W			
	12	200 / 800				FT1204.W		FT1208.W	FT1209.W	FT1210.W	FT1218.W	FT1213.W	FT1217.W	FT1211.W	FT1214.W	FT1216.W
	16	200 / 800					FT1608.W	FT1609.W	FT1610.W	FT1618.W	FT1613.W	FT1617.W	FT1611.W	FT1614.W	FT1616.W	
	25	200 / 800						FT2508.W			FT2517.W		FT2514.W	FT2516.W		
	4	200 / 800				FT0404.H	FT0405.H	FT0407.H	FT0408.H	FT0409.H	FT0410.H		FT0411.H	FT0414.H		
	6	200 / 800					FT0607.H	FT0608.H		FT0610.H	FT0618.H	FT0613.H	FT0617.H	FT0611.H	FT0614.H	FT0616.H
TO220AB	8	200 / 800	FT0803.H	FT0804.H		FT0807.H	FT0808.H		FT0810.H	FT0818.H	FT0813.H	FT0817.H	FT0811.H	FT0814.H	FT0816.H	
	10	200 / 800				FT1008.H			FT1010.H	FT1018.H	FT1013.H	FT1017.H	FT1011.H	FT1014.H	FT1016.H	
	12	200 / 800				FT1204.H		FT1208.H	FT1210.H	FT1218.H	FT1213.H	FT1217.H	FT1211.H	FT1214.H	FT1216.H	
	16	200 / 800					FT1608.H		FT1610.H	FT1618.H	FT1613.H	FT1617.H	FT1611.H	FT1614.H	FT1616.H	
	25	200 / 800							FT2510.H	FT2518.H	FT2513.H	FT2517.H		FT2514.H	FT2516.H	
	6	200 / 800				FT0604.J		FT0608.J	FT0609.J	FT0618.J	FT0617.J		FT0614.J	FT0616.J		
	8	200 / 800				FT0804.J		FT0808.J	FT0809.J	FT0818.J	FT0817.J		FT0814.J	FT0816.J		
TO220 AB INSULATED	10	200 / 800							FT1018.J	FT1017.J			FT1014.J	FT1016.J		
	12	200 / 800				FT1204.J		FT1208.J	FT1209.J	FT1218.J	FT1217.J		FT1214.J	FT1216.J		
	16	200 / 800					FT1608.J	FT1609.J		FT1618.J	FT1617.J		FT1614.J	FT1616.J		
	20	200 / 800											FT2014.J	FT2016.J	FT2016.J	
	25	200 / 800								FT2518.J	FT2517.J		FT2514.J	FT2516.J		

SCRs

Package	I _{TRMS} (A)	V _{DRM/RRM} (V)	Sensitive gate SCRs							Standard gate SCRs						
			Min. Max.	0.5 µA	1 20 µA	4 25 µA	15 50 µA	20 200 µA	200 µA	0.5 mA	2 15 mA	2 25 mA	4 40 mA			
TO92	0.8	200 / 600	FS0118.A	FS0101.A	FS0111.A	FS0104.A	FS0103.A	FS0102.A								
	0.8	400											XL0102.A			
	1.25	200 / 800		FS0201.A		FS0204.A	FS0203.A	FS0202.A								
SOT223	0.8	200 / 600	FS0118.N	FS0101.N	FS0111.N	FS0104.N	FS0103.N	FS0102.N								
	1.25	200 / 800		FS0201.N		FS0204.N	FS0203.N	FS0202.N								
DPAK	4	200 / 800		FS0401.D		FS0404.D	FS0403.D	FS0402.D								
	8	200 / 800											FS0802.D	FS0808.D	FS0809.D	
IPAK	4	200/800		FS0401.I		FS0404.I	FS0403.I	FS0402.I								
	6	200 / 800												FS0608.J	FS0609.J	
	8	200 / 800												FS0808.J	FS0809.J	
TO225AA	4	200 / 800				FS0404.K		FS0402.K								
	12	200 / 800												FS1209.G		
D2PAK	16	200 / 800												FS1610.G		
	25	200 / 800												FS2510.G		
	8	200 / 800											FS0802.W	FS0809.W		
TO220F	10	200 / 800												FS1009.W		
	12	200 / 800												FS1209.W		
	25	200 / 800												FS2510.W	FS2514.W	
	4	200 / 800											FS0404.H	FS0402.H		
TO220AB	6	200 / 800												FS0609.H		
	8	200 / 800												FS0802.H	FS0809.H	
	10	200 / 800												FS1009.H		
	12	200 / 800												FS1208.H	FS1209.H	FS1210.H
	16	200 / 800												FS1610.H	FS1614.H	
	25	200 / 800												FS2510.H	FS2514.H	

* Groups 02, 03, 04, 05, only till 600V
 ** 4 Quadrants Igt: 1 - 35 mA
 *** 4 Quadrants Igt: 2 - 50 mA

