



THYRISTORS

TRIACs
SCRs
DIACs



FAGOR
ELECTRÓNICA



Thyristors

Fagor Electronica offers a complete range of thyristors with voltage ratings up to 800V, ranging from 1 Amp to 40 Amp and gate current ratings from 5 mA up to 50 mA in wide range of formats including axial, radial and SMD. We are committed to manufacturing a thyristor solution for any demand from the market.

Main applications

Consumer

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

Industrial

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

ENGINE CONTROLS Ignitors	SECURITY Burglar Alarms
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Data processing

POWER SUPPLIES Automatic Voltage Switches Protective Circuits
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Main features

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

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



Electronics

Thyristor

Motor

Thyristor lines



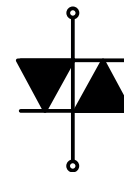
SCR

- Sensitive Gate SCR
- Standard SCR
- Surface Mount SCR



TRIAC

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













DIAC

- Standard DIAC
- Surface Mount DIAC



TRIACs

Sensitivity-IGT	Logic Level TRIACs					
	3	5	5	5	10	10
	IGT max.01-3	5	--	5	7	--

PACKAGE	IT(RMS) (A)	VDRM/RRM (V)	mA	mA	mA	mA	mA	mA
T092 	1	400 / 800	FT0103.A			FT0107.A		FT0109.A
SOT223 	1	400 / 800	FT0103.N			FT0107.N		FT0109.N
DPAK 	4	400 / 800				FT0407.D	FT0408.D	
	8	400 / 800				FT0807.D	FT0808.D	
IPAK 	4	400 / 800				FT0407.I	FT0408.I	
	8	400 / 800				FT0807.I	FT0808.I	FT0809.I
D2PAK 	8	400 / 800*		FT0804.G		FT0807.G		FT0809.G
	12	400 / 800		FT1204.G			FT1208.G	FT1209.G
	16	400 / 800					FT1608.G	FT1609.G
	25	400 / 800						
T0220F 	4	400 / 800*		FT0404.W	FT0405.W	FT0407.W	FT0408.W	FT0409.W
	6	400 / 800					FT0608.W	FT0609.W
	8	400 / 800	FT0803.W			FT0807.W	FT0808.W	FT0809.W
	10	400 / 800					FT1008.W	FT1009.W
	12	400 / 800		FT1204.W			FT1208.W	FT1209.W
	16	400 / 800					FT1608.W	FT1609.W
T0220AB 	4	400 / 800*		FT0404.H	FT0405.H	FT0407.H	FT0408.H	FT0409.H
	6	400 / 800				FT0607.H	FT0608.H	
	8	400 / 800	FT0803.H	FT0804.H		FT0807.H	FT0808.H	FT0809.H
	10	400 / 800					FT1008.H	
	12	400 / 800*		FT1204.H			FT1208.H	
	16	400 / 800					FT1608.H	
TO 220 AB INSULATED 	6	400 / 800		FT0604.J			FT0608.J	FT0609.J
	8	400 / 800		FT0804.J			FT0808.J	FT0809.J
	10	400 / 800						
	12	400 / 800		FT1204.J			FT1208.J	FT1209.J
	16	400 / 800					FT1608.J	FT1609.J
	20	400 / 800						
T03P INSULATED 	25	600 / 800						
	40	600 / 800						
T03P FP 	40	600 / 800						

*Group 04 only 600V











TRIACs

PACKAGE	I _{T(RMS)} (A)	V _{DRM/RRM} (V)	Sensitivity-IGT			Standard TRIACs			High Commutation TRIACs			
			I _{GT max.01-3}	25	25	50	25	35	50	25	35	50
			I _{GT max.04}	25	50	100	--	--	--	mA	mA	mA
			mA	mA	mA							
T092	1	400 / 800										
SOT223	1	400 / 800										
DPAK	4	400 / 800	FT0410.D			FT0411.D	FT0414.D	FT0416.D				
	8	400 / 800	FT0810.D	FT0818.D	FT0817.D	FT0811.D	FT0814.D	FT0816.D				
IPAK	4	400 / 800	FT0410.I			FT0411.I	FT0414.I	FT0416.I				
	8	400 / 800				FT0811.I	FT0814.I	FT0816.I				
D2PAK	8	400 / 800*	FT0810.G				FT0814.G					
	12	400 / 800	FT1210.G	FT1218.G	FT1217.G	FT1211.G	FT1214.G	FT1216.G				
	16	400 / 800	FT1610.G	FT1618.G	FT1617.G	FT1611.G	FT1614.G	FT1616.G				
	25	400 / 800					FT2514.G	FT2516.G				
TO220F	4	400 / 800*	FT0410.W				FT0414.W					
	6	400 / 800	FT0610.W	FT0618.W	FT0617.W	FT0611.W	FT0614.W	FT0616.W				
	8	400 / 800	FT0810.W	FT0818.W	FT0817.W		FT0814.W	FT0816.W				
	10	400 / 800	FT1010.W	FT1018.W	FT1017.W	FT1011.W						
	12	400 / 800	FT1210.W	FT1218.W	FT1217.W	FT1211.W	FT1214.W	FT1216.W				
	16	400 / 800	FT1610.W	FT1618.W	FT1617.W	FT1611.W	FT1614.W	FT1616.W				
TO220AB	25	400 / 800			FT2517.W		FT2514.W	FT2516.W				
	4	400 / 800*	FT0410.H			FT0411.H	FT0414.H					
	6	400 / 800	FT0610.H	FT0618.H	FT0617.H	FT0611.H	FT0614.H	FT0616.H				
	8	400 / 800	FT0810.H	FT0818.H	FT0817.H	FT0811.H	FT0814.H	FT0816.H				
	10	400 / 800	FT1010.H	FT1018.H	FT1017.H	FT1011.H	FT1014.H	FT1016.H				
	12	400 / 800*	FT1210.H	FT1218.H	FT1217.H	FT1211.H	FT1214.H	FT1216.H				
TO 220 AB INSULATED	16	400 / 800	FT1610.H	FT1618.H	FT1617.H	FT1611.H	FT1614.H	FT1616.H				
	25	400 / 800	FT2510.H	FT2518.H	FT2517.H		FT2514.H	FT2516.H				
	6	400 / 800		FT0618.J	FT0617.J		FT0614.J	FT0616.J				
	8	400 / 800		FT0818.J	FT0817.J		FT0814.J	FT0816.J				
	10	400 / 800		FT1018.J	FT1017.J		FT1014.J	FT1016.J				
	12	400 / 800		FT1218.J	FT1217.J		FT1214.J	FT1216.J				
TO3P INSULATED	16	400 / 800		FT1618.J	FT1617.J		FT1614.J	FT1616.J				
	20	400 / 800					FT2014.J	FT2016.J				
	25	400 / 800		FT2518.J	FT2517.J		FT2514.J	FT2516.J				
	25	600 / 800			FT2517.P			FT2516.P				
TO3P FP	40	600 / 800		FT4018.P	FT4017.P		FT4014.P	FT4016.P				
	40	600 / 800						FT4016.V				

*Group 04 only 600V



SCRs

PACKAGE	IT(RMS) (A)	VDRM/RRM (V)	Sensitivity-IGT					
			Min.	0.5	1	15	20	-
			Max.	5	20	50	200	200
			μA	μA	μA	μA	μA	μA
T092 	0.8	400 / 600	FS0118.A	FS0101.A	FS0104.A	FS0103.A	FS0102.A	
	0.8	400					XL0102.A	
	1.25	400 / 800		FS0201.A	FS0204.A	FS0203.A	FS0202.A	
SOT223 	0.8	400 / 600	FS0118.N	FS0101.N	FS0104.N	FS0103.N	FS0102.N	
	1.25	400 / 800		FS0201.N	FS0204.N	FS0203.N	FS0202.N	
SOT 23-3L 	0.8	400 / 600	FS0118.L	FS0101.L	FS0104.L	FS0103.L	FS0102.L	
DPAK 	4	400 / 800		FS0401.D	FS0404.D	FS0403.D	FS0402.D	
	8	400 / 800					FS0802.D	
	12	400 / 800					FS1202.D	
IPAK 	4	400 / 800		FS0401.I	FS0404.I	FS0403.I	FS0402.I	
	8	400 / 800					FS0802.I	
	12	400 / 800					FS1202.I	
D2PAK 	12	400 / 800					FS1202.G	
	16	400 / 800						
	25	400 / 800						
	40	400 / 800						
T0220F 	8	400 / 800					FS0802.W	
	10	400 / 800						
	12	400 / 800					FS1202.W	
	25	400 / 800						
T0220AB 	4	400 / 800		FS0401.H	FS0404.H		FS0402.H	
	6	400 / 800						
	8	400 / 800					FS0802.H	
	10	400 / 800						
	12	400 / 800					FS1202.H	
	16	400 / 800						
	25	400 / 800						
	40	400 / 800						
TO 220 AB INSULATED 	16	400 / 800						
	25	400 / 800						
T03P INSULATED 	50	600 / 1200						

SCRs

PACKAGE	I _{T(RMS)} (A)	V _{DRM/RRM} (V)	Standard gate SCRs						
			Sensitivity-IGT		0.5	2	2	4	-
			Min.	Max.	5	15	25	40	80
			mA	mA	mA	mA	mA	mA	
T092 	0.8	400 / 600							
	0.8	400							
	1.25	400 / 800							
SOT223 	0.8	400 / 600							
	1.25	400 / 800							
SOT 23-3L 	0.8	400 / 600							
DPAK 	4	400 / 800							
	8	400 / 800	FS0808.D	FS0809.D					
	12	400 / 800	FS1208.D	FS1209.D	FS1210.D				
IPAK 	4	400 / 800							
	8	400 / 800	FS0808.I	FS0809.I					
	12	400 / 800	FS1208.I	FS1209.I	FS1210.I				
D2PAK 	12	400 / 800	FS1208.G	FS1209.G	FS1210.G				
	16	400 / 800			FS1610.G	FS1614.G			
	25	400 / 800			FS2510.G	FS2514.G			
	40	400 / 800					FS4014.G		
T0220F 	8	400 / 800	FS0808.W	FS0809.W					
	10	400 / 800		FS1009.W					
	12	400 / 800	FS1208.W	FS1209.W	FS1210.W				
	25	400 / 800			FS2510.W	FS2514.W			
T0220AB 	4	400 / 800							
	6	400 / 800		FS0609.H					
	8	400 / 800	FS0808.H	FS0809.H					
	10	400 / 800		FS1009.H					
	12	400 / 800	FS1208.H	FS1209.H	FS1210.H				
	16	400 / 800			FS1610.H	FS1614.H			
	25	400 / 800			FS2510.H	FS2514.H			
TO 220 AB INSULATED 	16	400 / 800			FS1610.J	FS1614.J			
	25	400 / 800			FS2510.J	FS2514.J			
T03P INSULATED 	50	600 / 1200						FS5030.P	

DIACS

PACKAGE	Part Number	I _{TRM} max.	V ₈₀		I _{B0}	
		A	min. V	Typ. V		max. V
D035 	FD0200YR	2	28	32	36	50
	FD0201YR	2	30	32	35	15
	FD0202YR	2	30	32	34	15
	FD0230YR	2	28	32	36	50
MiniMELF 	FD0200YM	2	28	32	36	50
	FD0201YM	2	30	32	35	15
	FD0230YM	2	28	32	36	50

FAGOR ELECTRONICA SEMICONDUCTORS



Fagor Electronica has been manufacturing electronic components since 1966. Our headquarters is based in the Basque city of Mondragon in Spain, with an additional production plant in Chachoengsao near Bangkok in Thailand. We employ over 500 people in both plants. We also form part of the Mondragon Corporation, the seventh largest business association in Spain and a major reference point for cooperativism in the world.

The semiconductor business unit exports over 96% of its production across the globe. Fagor Electronica has an extensive network of sales offices and agents to support and sustain our customer relationships. We are dedicated to manufacturing a solution for all our customers. For that matter we are considered a benchmark company for business sectors like lighting, power supply, white goods, house hold appliances and automotive.

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IATF 16949: 2016 Standard
ISO14001: 2015



Fagor Electrónica, S. Coop.
San Andrés, s/n
E-20500 Mondragón (Spain)
Tel: + 34 943 71 25 26

sc.sales@fagorelectronica.es
www.fagorelectronica.com

