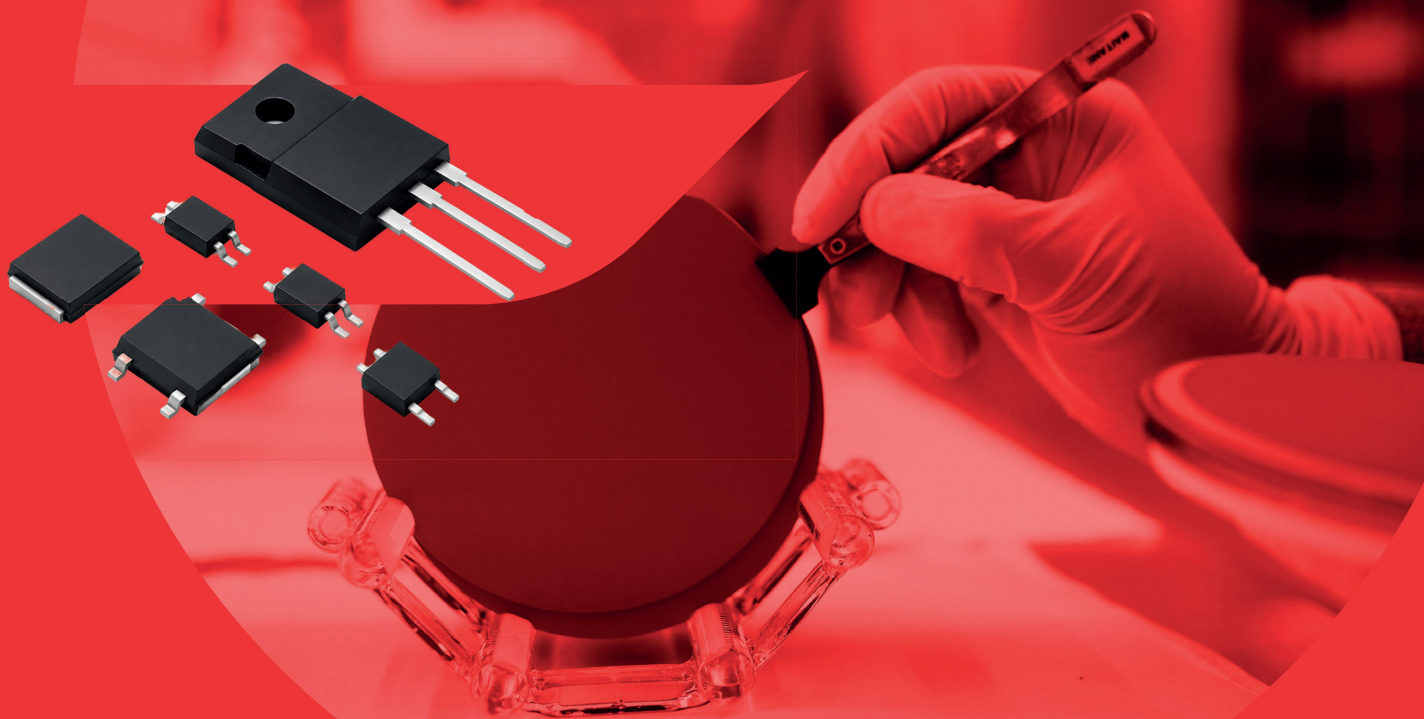


High power. Smart Consumption.

Thyristors



A reliable alternative for a more resilient supply chain.

A reliable, long-term partner

With decades of experience in the automotive industry, Fagor Electronica is a reliable partner committed to delivering high-quality semiconductor solutions.

Part of **MONDRAGON Group**

Fagor Electronica is part of MONDRAGON Group, one of the world's leading cooperative business groups, committed to innovation, industrial development and sustainable growth.



500
employees



Since
1966



Global
presence



Part of
Mondragon
Corporation

Combining european expertise with global manufacturing capabilities.



MONDRAGON SPAIN

- Head quarters & decision making
- R&D and engineering
- Front – end (wafer production)

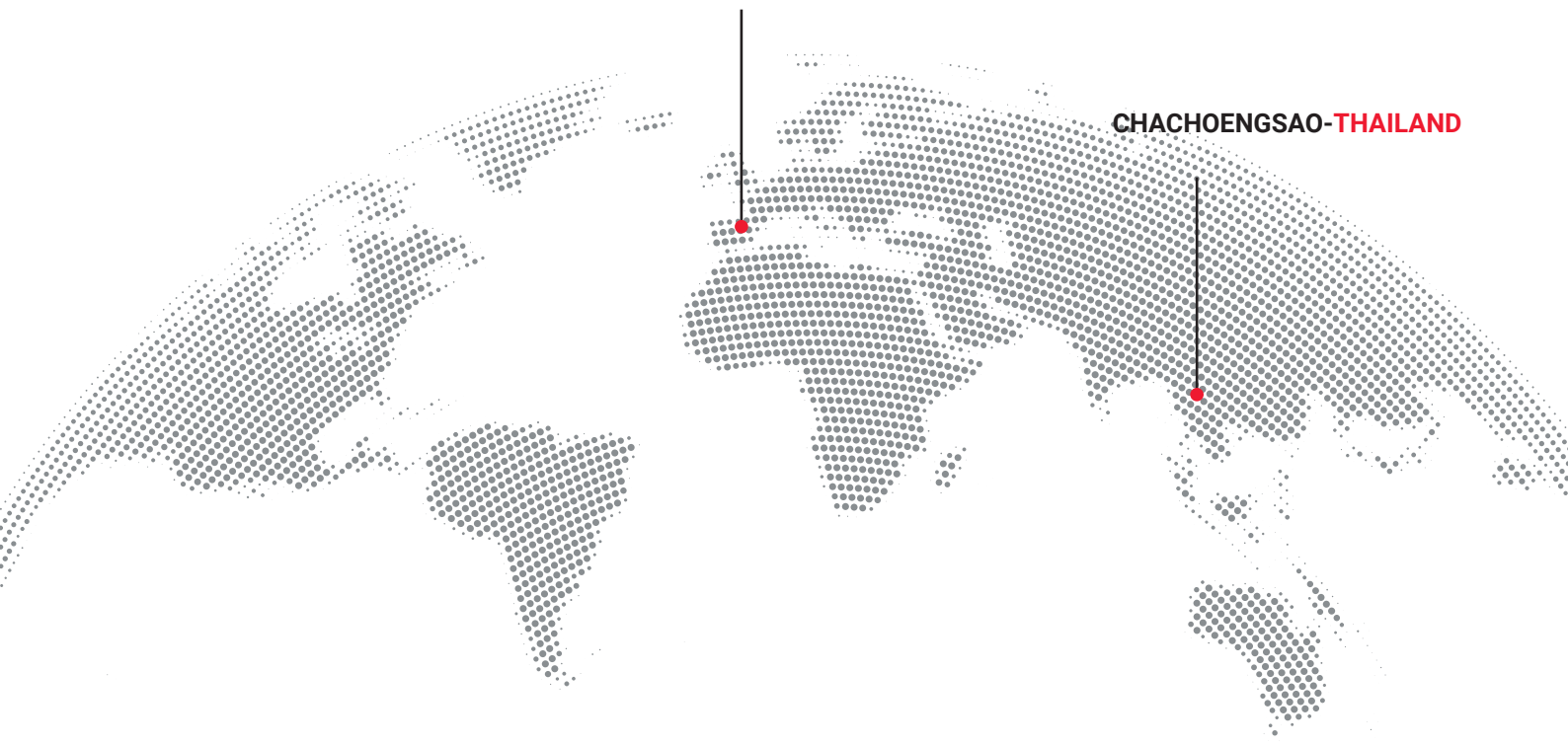


CHACHOENGSAO THAILAND

- Fully owned manufacturing facility
- Back-end production (assembly & testing)
- Operational since 1996

MONDRAGON-SPAIN

CHACHOENGSAO-THAILAND



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

Conventional applications

Consumer Goods



ELECTRIC FANS



AIR CONDITIONING



HOME APPLIANCES

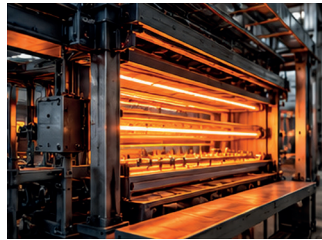


HEATING

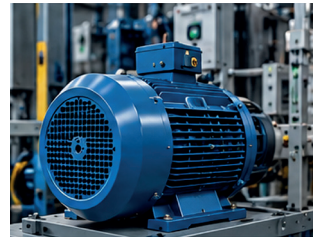
Industrial



GAS IGNITION SYSTEMS



HEATING

MOTOR SPEED
CONTROLLERS

SOLID STATE RELAYS

Emerging applications

RENEWABLE ENERGY
For efficient grid integrationELECTRIFIED TRANSPORT
For high current, fast switching devices
such as rail traction or EV chargingPOWER SUPPLIES
For AC/DC rectification and inrush
current control

High reliability comes with high efficiency

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



Electronics



Thyristor



Motor

Thyristor lines



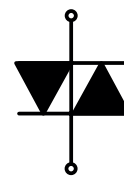
SCR

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

TRIACs		Sensitivity-IGT	Logic Level TRIACs					
		IGT max.Q1-3	3	5	5	5	10	10
		IGT max.Q4	5	--	5	7	--	10
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						
TO220F	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
	25	400 / 800					FT2508.W	
TO220AB	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	
	25	400 / 800						
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						
	25	400 / 800						
TO3P INSULATED	25	600 / 800						
	40	600 / 800						
TO3P FP	40	600 / 800						

TRIACs

PACKAGE	IT(RMS) (A)	VDRM/RRM (V)	Standard TRIACs			High Commutation TRIACs		
			Sensitivity-IGT					
			IGT max.Q1-3	IGT max.Q4		25	35	50
			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
	25	400 / 800			FT2517.W		FT2514.W	FT2516.W
TO220AB 	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
	16	400 / 800	FT1610.H	FT1618.H	FT1617.H	FT1611.H*	FT1614.H*	FT1616.H*
	20	400 / 800					FT2014.H*	FT2016.H*
	25	400 / 800	FT2510.H	FT2518.H	FT2517.H		FT2514.H	FT2516.H
	30	400 / 800					HT3014.H	HT3016.H
TO 220 AB INSULATED 	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
	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
TO3P INSULATED	25	600 / 800			FT2517.P			FT2516.P
	40	600 / 800		FT4018.P	FT4017.P		FT4014.P	FT4016.P
TO3P FP 	40	600 / 800						FT4016.V

*Group 04 only 600V

*Also available HT: High Temperature

SCRs			Sensitivity-IGT	Sensitive gate SCRs				
			Min.	0.5	1	15	20	-
			Max.	5	20	50	200	200
PACKAGE	IT(RMS) (A)	VDRM/RRM (V)	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						
TO220F 	8	400 / 800						FS0802.W
	10	400 / 800						
	12	400 / 800						FS1202.W
	25	400 / 800						
TO220AB 	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						
TO3P INSULATED 	50	600 / 1200						
TO3P INSULATED 	50	600/1200						

SCRs

		Sensitivity-IGT		Standard gate SCRs				
		Min.		0.5	2	2	4	-
		Max.		5	15	25	40	80
PACKAGE	IT(RMS) (A)	VDRM/RRM (V)		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		
TO220F 	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*		
TO220AB 	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*		
	40	400 / 800				FS4014.H		
TO 220 AB INSULATED 	16	400 / 800			FS1610.J	FS1614.J		
	25	400 / 800			FS2510.J	FS2514.J		
TO3P INSULATED 	50	600 / 1200						FS5030.P

*Also available HT: High Temperature (150°C)

DIACs

		ITRM max.	min.	V ₈₀ Typ.	max.	IBO
PACKAGE	Part Number	A	V	V	V	μA
DO35 	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 is building a new Clean Room

Fagor Electronica takes a technological leap forward with this new production plant, significantly increasing its manufacturing capacity and strengthening its capabilities to meet the demands of an evolving industry.

The new facility will feature **a state-of-the-art cleanroom**, designed to meet the most demanding quality and reliability standards in the semiconductor industry.

Advanced technology. Exceptional quality. Made for the next generation of power electronics.



Our contribution to the sustainable development goals

At Fagor Electronica, sustainability is part of the way we understand technology, innovation and responsible growth.

As part of the MONDRAGON Group, we contribute to the United Nations Sustainable Development Goals (SDGs) through our commitment to responsible manufacturing, technological innovation, energy efficiency, people and the environment.



IATF 16949: 2016 Standard
ISO14001: 2015



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