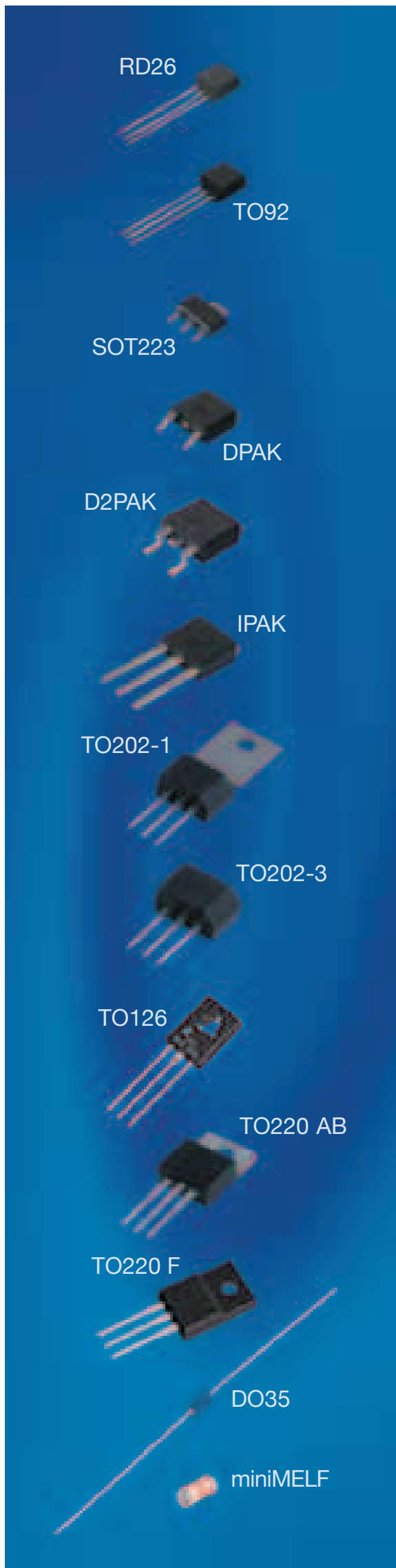




- Logic Level TRIACs

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

Package	Part Number	ITRM	min.	Typ.	max.	I _{BO}
		max	V	V	V	max.
						μA
DO35 	FD0200YR	2	28	32	36	50
	FD0201YR	2	30	32	34	15
	FD02030Y	2	28	32	36	100
MiniMELF 	FD0200YM	2	28	32	36	50
	FD0201YM	2	30	32	34	15

TRIACs

Logic Level TRIACs

Package		I _{TRMS} (A)	V _{BRVRRM} (V)	I _{GT} max									
				{Q1-3 LQ4	3 3 mA	5 5 mA	5 -- mA	5 5 mA	5 7 mA	10 -- mA	10 10 mA		
TO92		1	200		FT0102BA	FT0103BA	FT0104BA	FT0105BA	FT0107BA		FT0109BA		
			400	FT0102DA	FT0103DA	FT0104DA	FT0105DA	FT0107DA	FT0109DA				
			600	FT0102MA	FT0103MA	FT0104MA	FT0105MA	FT0107MA	FT0109MA				
SOT223		1	200		FT0102BN	FT0103BN	FT0104BN	FT0105BN	FT0107BN		FT0109BN		
			400	FT0102DN	FT0103DN	FT0104DN	FT0105DN	FT0107DN	FT0109DN				
			600	FT0102MN	FT0103MN	FT0104MN	FT0105MN	FT0107MN	FT0109MN				
DPAK		8	200										
			400										
			600										
IPAK		8	200										
			400										
			600										
TO225AA		4	200										
			400										
			600										
TO202-1		4	200				FT0405BE						
			400				FT0405DE						
			600				FT0405NE						
TO202-3		4	200				FT0405BF						
			400				FT0405DF						
			600				FT0405MF						
D2PAK		16	200				FT0405NF						
			400										
			600										
TO220F		10	200										
			400										
			600										
TO202AB		10	200										
			400										
			600										

Standard TRIACs

25	25	50	50
25	50	75	100
mA	mA	mA	mA
FT0110BA			
FT0110DA			
FT0110MA			
FT0110NA			
FT0110BN			
FT0110DN			
FT0110MN			
FT0110NN			
FT0410BD			
FT0410DD			
FT0410MD			
FT0410ND			
FT0410BI			
FT0410DI			
FT0410MI			
FT0410NI			
FT0410BK			
FT0410DK			
FT0410MK			
FT0410NK			
FT0410BE			
FT0410DE			
FT0410ME			
FT0410NE			
FT0410BF			
FT0410DF			
FT0410MF			
FT0410NF			
FT0810BG		FT0813BG	
FT0810DG		FT0813DG	
FT0810MG		FT0813MG	
FT0810NG		FT0813NG	
FT1210BG		FT1213BG	
FT1210DG		FT1213DG	
FT1210MG		FT1213MG	
FT1210NG		FT1213NG	
FT1610BG		FT1613BG	
FT1610DG		FT1613DG	
FT1610MG		FT1613MG	
FT1610NG		FT1613NG	
FT0410BW			
FT0410DW			
FT0410MW			
FT0410NW			
FT0610BW	FT0618BW		FT0617BW
FT0610DW	FT0618DW		FT0617DW
FT0610MW	FT0618MW		FT0617MW
FT0610NW	FT0618NW		FT0617NW
FT0810BW	FT0818BW	FT0813BW	FT0817BW
FT0810DW	FT0818DW	FT0813DW	FT0817DW
FT0810MW	FT0818MW	FT0813MW	FT0817MW
FT0810NW	FT0818NW	FT0813NW	FT0817NW
FT1010BW	FT1018BW	FT1013BW	FT1017BW
FT1010DW	FT1018DW	FT1013DW	FT1017DW
FT1010MW	FT1018MW	FT1013MW	FT1017MW
FT1010NW	FT1018NW	FT1013NW	FT1017NW
FT1210BW	FT1218BW	FT1213BW	FT1217BW
FT1210DW	FT1218DW	FT1213DW	FT1217DW
FT1210MW	FT1218MW	FT1213MW	FT1217MW
FT1210NW	FT1218NW	FT1213NW	FT1217NW
FT1610BW	FT1618BW	FT1613BW	FT1617BW
FT1610DW	FT1618DW	FT1613DW	FT1617DW
FT1610MW	FT1618MW	FT1613MW	FT1617MW
FT1610NW	FT1618NW	FT1613NW	FT1617NW
FT0410BH			
FT0410DH			
FT0410MH			
FT0610BH	FT0618BH	FT0613BH	FT0617BH
FT0610DH	FT0618DH	FT0613DH	FT0617DH
FT0610MH	FT0618MH	FT0613MH	FT0617MH
FT0610NH	FT0618NH	FT0613NH	FT0617NH
FT0810DH	FT0818DH	FT0813DH	FT0817DH
FT0810MH	FT0818MH	FT0813MH	FT0817MH
FT0810NH	FT0818NH	FT0813NH	FT0817NH
FT1010BH	FT1018BH	FT1013BH	FT1017BH
FT1010DH	FT1018DH	FT1013DH	FT1017DH
FT1010MH	FT1018MH	FT1013MH	FT1017MH
FT1010NH	FT1018NH	FT1013NH	FT1017NH
FT1210BH	FT1218BH	FT1213BH	FT1217BH
FT1210DH	FT1218DH	FT1213DH	FT1217DH
FT1210MH	FT1218MH	FT1213MH	FT1217MH
FT1210NH	FT1218NH	FT1213NH	FT1217NH
FT1610BH	FT1618BH	FT1613BH	FT1617BH
FT1610DH	FT1618DH	FT1613DH	FT1617DH
FT1610MH	FT1618MH	FT1613MH	FT1617MH
FT1610NH	FT1618NH	FT1613NH	FT1617NH
FT2510BH	FT2518BH	FT2513BH	FT2517BH
FT2510DH	FT2518DH	FT2513DH	FT2517DH
FT2510MH	FT2518MH	FT2513MH	FT2517MH
FT2510NH	FT2518NH	FT2513NH	FT2517NH

High Commutation TRIACs

[illegible]

Package	$I_T(\text{RMS})$ (A)	$V_{\text{DRM/RRM}}$ (V)	I_{GT}
TO92		0.8	200
			400
			600
		0.8	400
		1.25	200
			400
			600
			800
		0.8	200
		1.25	400
FD26			400
			600
			800
		0.8	200
		1.25	400
			600
			800
			200
			400
			600
SOT223			200
			400
			600
		0.8	200
		1.25	400
			600
			800
			200
			400
			600
DPAK		4	200
			400
			600
		8	200
			400
			600
			800
			200
			400
			600
IPAK		4	200
			400
			600
		8	200
			400
			600
			800
			200
			400
			600
TO225AA		4	200
			400
			600
		4	200
			400
			600
			800
			200
			400
			600
TO202-1		8	200
			400
			600
		4	200
			400
			600
			800
			200
			400
			600
TO202-3		8	200
			400
			600
		12	200
			400
			600
			800
			200
			400
			600
D2PAK		16	200
			400
			600
		25	200
			400
			600
			800
			200
			400
			600
		8	200
			400
			600
		10	200
			400
TO220F			600
			800
		12	200
			400
			600
			800
			200
			400
			600
			800
		4	200
			400
			600
		6	200
			400
			600
			800
			200
			400
			600
TO220AB		8	200
			400
			600
		10	200
			400
			600
			800
			200
			400
			600
		12	200
			400
			600
		16	200
			400
			600
			800
			200
			400
			600
		25	200
			400
			600
			800
			800

Sensitive Gate SCRs

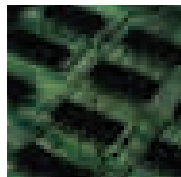
Min. Max.	0.5 5 μA	1 20 μA	4 25 μA	15 50 μA	20 200 μA	-- 200 μA
	FS0118BA FS0118DA FS0118MA	FS0101BA FS0101DA FS0101MA	FS0111BA FS0111DA FS0111MA	FS0104BA FS0104DA FS0104MA	FS0103BA FS0103DA FS0103MA	FS0102BA FS0102DA FS0102MA XU0102DA
		FS0201BA FS0201DA FS0201MA FS0201NA		FS0204BA FS0204DA FS0204MA FS0204NA	FS0203BA FS0203DA FS0203MA FS0203NA	FS0202BA FS0202DA FS0202MA FS0202NA
	FS0118BB FS0118DB FS0118MB	FS0101BB FS0101DB FS0101MB	FS0111BB FS0111DB FS0111MB	FS0104BB FS0104DB FS0104MB	FS0103BB FS0103DB FS0103MB	FS0102BB FS0102DB FS0102MB
		FS0201BB FS0201DB FS0201MB FS0201NB		FS0204BB FS0204DB FS0204MB FS0204NB	FS0203BB FS0203DB FS0203MB FS0203NB	FS0202BB FS0202DB FS0202MB FS0202NB
	FS0118BN FS0118DN FS0118MN	FS0101BN FS0101DN FS0101MN	FS0111BN FS0111DN FS0111MN	FS0104BN FS0104DN FS0104MN	FS0103BN FS0103DN FS0103MN	FS0102BN FS0102DN FS0102MN
		FS0201BN FS0201DN FS0201MN FS0201NN		FS0204BN FS0204DN FS0204MN FS0204NN	FS0203BN FS0203DN FS0203MN FS0203NN	FS0202BN FS0202DN FS0202MN FS0202NN
	FS0401BD FS0401DD FS0401MD FS0401ND	FS0401BB FS0401DB FS0401MB FS0401NB		FS0404BD FS0404DD FS0404MD FS0404ND	FS0403BD FS0403DD FS0403MD FS0403ND	FS0402BD FS0402DD FS0402MD FS0402ND FS0802BD FS0802DD FS0802MD FS0802ND
		FS0401BI FS0401DI FS0401MI FS0401NI		FS0404BI FS0404DI FS0404MI FS0404NI	FS0403BI FS0403DI FS0403MI FS0403NI	FS0402BI FS0402DI FS0402MI FS0402NI FS0802BI FS0802DI FS0802MI FS0802NI
				FS0404BK FS0404DK FS0404MK FS0404BE FS0404DE FS0404ME FS0404NE		FS0402BK FS0402DK FS0402MK FS0402BE FS0402DE FS0402ME FS0402NE
				FS0404BF FS0404DF FS0404MF FS0404NF		FS0402BF FS0402DF FS0402MF FS0402NF FS0802BF FS0802DF FS0802MF FS0802NF
						FS0802BW FS0802DW FS0802MW FS0802NW
				FS0404BH FS0404DH FS0404MH FS0404NH		FS0402BH FS0402DH FS0402MH FS0402NH
						FS0802BH FS0802DH FS0802MH FS0802NH

Standard Gate SCRs

[illegible]

Main applications

Consumer



AIR CONDITIONING

Motor Speed Control

SAFETY SYSTEMS

GFCI's
ALCI's

SECURITY SYSTEMS

Smoke Alarms
Intrusion Alarms
Electronic Locks

HEATING

Power Control
Airflow Controls

TELEVISION

Standby
Power Supply

HOME APPLIANCES

Motor Speed Control
Actuator Controls
Valve Controls
Safety Switches

FAN & COOLERS

Motor Speed Control

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



Communication

DATAKOM

Protective Circuits

TELEPHONE

Protection Circuits
Line Terminators



Automotive



ENGINE CONTROLS

Ignitors

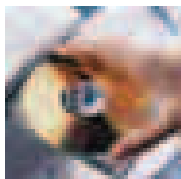
SECURITY

Burglar Alarms

Data processing

POWER SUPPLIES

Automatic Voltage
Switches
Protective Circuits



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THYRISTOR LINES

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

September 2005



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