

# AUTOMOTIVE

## RECOMMENDED PRODUCTS FROM SGS-THOMSON

### SPECIAL FUNCTIONS

Type Number	Description
<a href="#">L4620</a>	Liquid Level Alarm
<a href="#">L9610C/11C</a>	PWM Powermos Controller
<a href="#">L9686</a>	Automotive Indicator
<a href="#">L9700</a>	Hex Precision Limiter
<a href="#">L9703</a>	Octal Ground Contact Monitoring Circuit
<a href="#">L9704</a>	Octal Supply Contact Monitoring Circuit

### PREAMPLIFIERS AND AUDIO PROCESSORS

Type Number	Description
<a href="#">TDA2320A</a>	Stereo Preamplifier
<a href="#">TDA3420</a>	Dual Very Low Noise Preamplifier
<a href="#">TDA7300</a>	Digital Controlled Stereo Audio Processor
<a href="#">TDA7302</a>	Digital Controlled Stereo Audio Processor
<a href="#">TDA7306</a>	Digital Controlled Stereo Audio Processor

### IGNITION CONTROL

<a href="#">L482/1</a>	Hall Effect Pickup Ignition Controller
<a href="#">L484/1</a>	Magnetic Pickup Ignition Controller
<a href="#">L497</a>	Hall Effect Pickup Ignition Controller
<a href="#">STGP10N50A</a>	Insulated Gate Bipolar Transistor

Additional products: see next page

SUGGESTED MEMORY PRODUCTS AS IN APPENDIX: A,G,I,L

### FUEL INJECTION

Type Number	Description
<a href="#">L584</a>	Multifunction Injection Interface

### MOTOR CONTROLLERS

Type Number	Description
<a href="#">L272</a>	Dual Power Operational Amplifier
<a href="#">L2720/2/4</a>	Low Drop Dual Power Operational Amplifier
<a href="#">TDA1151</a>	Motor Speed Regulator
<a href="#">TDA1154</a>	Speed Regulator for DC Motors
<a href="#">TDA7275A</a>	Motor Speed Regulator
<a href="#">L9907</a>	Motor Bridge Driver for Headlight Adjustment
<a href="#">L9930</a>	Dual Full Bridge Driver for DC motors (e.g. Idle Speed)
<a href="#">L9943</a>	Stepper Motor Driver (e.g. Idle Speed Control)
<a href="#">L9947S</a>	Quad Half Bridges + 1HSD (e.g. Mirror Control)
<a href="#">L9997</a>	Motor Bridge Driver (e.g. Mirror control, Climatization)

### DISPLAYS

Type Number	Description
<a href="#">M5450/1</a>	Led Display Driver
<a href="#">M5480</a>	Led Display Driver
<a href="#">M5481</a>	Led Display Driver
<a href="#">M5482</a>	Led Display Driver
<a href="#">ULN2001A</a> to 2004A	Seven Darlington Array

### ABS SYSTEM

Type	Function
<a href="#">B82 Z</a>	Protection Device (Darlington + Zener)

### PROTECTION DEVICES

Type	Function
<a href="#">BZW04...</a> <a href="#">BZW06...</a> <a href="#">P6KE...</a> <a href="#">1.5 KE...</a> <a href="#">BZW50...</a>	Electronic modules and dashboard circuits protection
<a href="#">SM4T</a> <a href="#">SM6T</a> <a href="#">SM15T</a>	SMD-Transil
<a href="#">LDP24/AS/M</a>	Load Dump
<a href="#">RB008-40T</a> <a href="#">RB040-40T/M</a>	Reverse Battery Protection Reverse Battery Protection and load Dump. Protection.

### OPERATIONAL AMPLIFIERS / TIMERS

Type	Function
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## RECOMMENDED PRODUCTS FROM SGS-THOMSON

### REGULATORS, LAMPS/ SOLENOID/DC MOTOR DRIVERS, DASHBOARDS

Type	Function
<a href="#">BUZ10</a> <a href="#">BUZ11</a> <a href="#">BUZ11A</a> <a href="#">BUZ11FI</a> <a href="#">BUZ71</a> <a href="#">BUZ71FI</a> <a href="#">IRFZ20</a> STP60N06/-16 STP65N06/FI STP55N06L/FI STP53N06 STP50N06/L/FI STP36N06/L/FI/LFI STP30N06/FI STK23N06L STP32N06L/FI <a href="#">STK22N06</a> STP25N06/FI STD17N06/L STK18N06/L STP20N06/FI STP21N06L/FI <a href="#">STK14N06</a> STP15N06/FI <a href="#">STK12N06L</a> STD12N06/L STK3055E STP15N06L/FI	Discrete Power Mosfet

### ELECTRONIC IGNITIONS

Type	Function
<a href="#">BU941Z/P/PFI/T/TFI</a> <a href="#">BU911</a> SGS911 <a href="#">BU912</a> <a href="#">BU931/P/PFI/SM/T/TFI</a> <a href="#">BU941</a> <a href="#">BU900DT</a>	Darlingtons
<a href="#">VB020</a> <a href="#">VB024</a> <a href="#">VB027</a> <a href="#">VB027SP</a> <a href="#">VB921ZV</a>	Intelligent Power
<a href="#">STGP10N50AL</a>	IGBT

### IGNITION

Type	Function
<a href="#">L484</a>	Magnetic Pickup Ignition Controller
<a href="#">L497</a>	Hall-Effect Pickup Ignition Controller

### LIGHTING

Type	Function
<a href="#">L9686</a>	Blinker
<a href="#">L9687</a>	Blinker with Very Low Quiescent Current
<a href="#">L9830</a>	Lamp Dimmer

### POWER SUPPLY

Type	Function
<a href="#">L4922</a> <a href="#">L4923</a> <a href="#">L4925</a> <a href="#">L4925</a> <a href="#">L4936N/37N/38N</a> <a href="#">L4936EH/L4938ED</a>	5V/1A V. Reg with Reset 5V/500mA V.Reg with Reset and Inhibit 5V/500mA V.Reg with Reset 5V/500mA V.Reg with Reset in Power SO-20 Dual 5V (Adju.)/500mA, 5V/50mA Multif. V.Reg Dual 5V (Adju.)/400mA, 5V/100mA with Programmable Reset
<a href="#">L4939</a> <a href="#">L4945</a> <a href="#">L4947/L4947R</a> <a href="#">L4947PD</a>	Dual 5V/5mA-80mA V.Reg with Reset 5V/500mA V.Reg 5V/500mA V.Reg with Reset 5V/500mA V.Reg with Reset in Power SO-20 package
<a href="#">L4949ND</a> <a href="#">L4942PD</a>	5V/100mA Multifunction V.Reg with Reset 5V/1.25A PWM Current Mode Reg. with Internal Power Transistor, 12V/100mA (EEPROM Progr.), 5V/1mA Multifunction V.Reg
<a href="#">L4935</a>	Triple 5V/350mA-100mA-7.5mA V.Reg with Inhibit and Reset

### INTERFACES

Type	Function
<a href="#">L9637</a> <a href="#">L9581</a> <a href="#">L9705</a>	ISO (9141) Interface VAN Line Interface Double Quad Contact Interface Circuit (4GND and 4VBAT)

Additional products: see next page



# AUTOMOTIVE

## RECOMMENDED PRODUCTS FROM SGS-THOMSON

### SINGLE CHIP CONTROLLERS

Type	Function
ST621X	2K ROM/EPROM, 8-bit MCU, A/D Converter
ST622X	4K ROM/EPROM, 8-bit MCU, A/D Converter
ST626X	4K ROM/EPROM, 8-bit MCU, EEPROM, AR Timer A/D Converter
ST624X	4/8K ROM/EPROM, 8-bit MCU, EEPROM, LCD segments drive
ST628X	8K ROM/EPROM, 8-bit MCU, EEPROM, LCD dot matrix drive
ST902X	12/16K ROM/EPROM, 8/16 bit MCU, SPI+SCI, 32/36 I/Os
ST903X	8/16K ROM/EPROM, 8/16 bit MCU, SPI+SCI, A/D converter
ST904X	16K ROM/EPROM, 8/16 bit MCU, EEPROM, SPI+SCI, A/D converter

### MEMORIES

Type	Function
	available in 4. to 5.5V. or 2.5 to 5.5V cc specification
<a href="#">ST24C01</a>	1Kbit, i2C Bus, PDIP8 + PS08
<a href="#">ST24C02A</a>	2Kbit, i2C Bus, PDIP8 + PS08
<a href="#">ST24C04</a>	4Kbit, i2C Bus, PDIP8 + PS08
<a href="#">ST24C08</a>	8Kbit, i2C Bus, PDIP + PS0
<a href="#">ST93C06</a>	256bit, Microwine, PDIP8 + PS08
<a href="#">ST93C46A</a>	1Kbit, Microwine, PDIP9 + PS08
<a href="#">ST93CS46</a>	1Kbit, Microwine, PDIP8 + PS08, write protect
<a href="#">ST93CS56</a>	2Kbit, Microwine, PDIP8 + PS08 + PS014, write protect
<a href="#">M87C257</a>	256K CMOS LATCHED EPROM
<a href="#">M27C256</a>	256K CMOS EPROM
<a href="#">M27C512</a>	512K CMOS EPROM
<a href="#">ST90E30</a>	8K EPROM CMOS 8/16-bit MCU with ADC, SCI, 2 MFTs
<a href="#">ST90R30</a>	ROMLESS version of ST9030
<a href="#">ST90R50</a>	ROMLESS HCMOS 8/16-bit MCU with ADC, 2SCI, 3 MFTs

### OUTPUT STAGE FOR VOLTAGE REGULATORS/ ALTERNATORS

Type	Function
<a href="#">SGS112/BD336</a> <a href="#">SGS122/127</a> <a href="#">BD336</a> BDX53B/54B TIP131 <a href="#">TIP106</a> BDX53C/54C TIP102/107 TIP141/146 TIP142/147 BDW93B/94B BDW93C/94C SGSD100/D200 MJ11014/013	High Gain Bipolar Darlingtons

### ALTERNATOR VOLTAGE REGULATOR

Type	Function
<a href="#">L585</a>	Multifunction Car Alternator Voltage Regulator
<a href="#">L9480VB/L9444VB/L9448VB</a>	Monofunction Car Alternator Voltage Regulator
<a href="#">L9463</a>	Monofunction Alternator Regulator with Battery Sensing

Additional products: see next page

# AUTOMOTIVE

## RECOMMENDED PRODUCTS FROM SGS-THOMSON

### VOLTAGE REGULATORS

Type	Function
LFxx	Low drop 0.5A
LExxA/C	Low drop 100mA
LK115Dxx	Low drop 100mA
L487	Very low drop
L2605	Low drop
L470	Very low drop
<a href="#">L4920</a>	Adjustable
<a href="#">L4921</a>	Adjustable
<a href="#">L387A</a>	5V-0.4A Very Low Drop Regulator
L2605/85/10	0.5A Low Drop Voltage Regulators
L4805/85/92/10/12	0.4A Very Low Drop Voltage Regulators
<a href="#">L4901A</a>	Dual 5V Regulator with Reset
<a href="#">L4902A</a>	Dual 5V Regulator with Reset and Disable
<a href="#">L4904A</a>	Dual 5V Regulator with Reset
<a href="#">L4916</a>	Voltage Regulator Plus Filter
<a href="#">L4918</a>	Voltage Regulator Plus Filter
L4920/21	Very Low Drop Adjustable Regulators
<a href="#">L4922</a>	5V-1A Very Low Drop Regulator with Reset
<a href="#">L4923</a>	5V-1A Very Low Drop Reg. with Reset and Inhibit
L4936/8	Dual Multifunction Voltage Regulators
L4937	Dual Multifunction Voltage Regulator
<a href="#">L4940V12</a>	Very Low Drop Regulator
<a href="#">L4945</a>	5V-0.5A Very Low Drop Regulator
<a href="#">L4947</a>	5V-0.5A Very Low Drop Regulator with Reset
TL77 Series	Supply Voltage Supervisor
GSR412	Switch mode, Power supply module

### ALTERNATOR REGULATORS

Type Number	Description
<a href="#">L585</a>	Car Alternator Regulator
<a href="#">L9480VB</a>	One Chip Car Alternator Regulator

### MONOLITHIC POWER ACTUATORS

Type Number	Description
<a href="#">L9222</a>	Quad Inverting Transistor Switch
<a href="#">L9305/C</a>	Dual High Current Relay Drivers
<a href="#">L9307/9</a>	Dual High Current Low Side Driver
<a href="#">L9308</a>	Dual Low Side Driver
<a href="#">L9324</a>	Window Lift Controller
<a href="#">L9350</a>	High Side Driver
<a href="#">L9821</a>	High Side Driver
<a href="#">L9822</a>	Octal Serial Solenoid Driver
<a href="#">L9947</a>	Multiple Half Bridge Driver
<a href="#">VN02N</a>	High Side Driver
<a href="#">VN05N</a>	High Side Driver
<a href="#">VN20N</a>	High Side Driver
<a href="#">VB020</a>	Electronic Ignition
<a href="#">L922D</a>	Quad Inverting Transistor Switch
<a href="#">L9307/9</a>	Dual High Current LSD
<a href="#">L9308</a>	Dual LSD
<a href="#">L9351</a>	1.5A High Side Driver
<a href="#">L9341H</a>	Quad LSD + Serial Interface
<a href="#">L9820</a>	1A High Side Driver
<a href="#">L9822EPD</a>	Octal Serial Input LSD with DMOS outputs
<a href="#">L9824D</a>	Octal Parallel Input LSD with DMOS outputs
<a href="#">L9377</a>	Octal Parallel Input LSD with DMOS outputs
<a href="#">L9386</a>	Dual LSD with Diagnostic (e.g. ABS Valve Driver)
<a href="#">L9388D</a>	Dual LSD with Diagnostic (e.g. ABS Valve Driver)
<a href="#">L9363</a>	Quad Parallel Medium Power LSD
<a href="#">L9839</a>	Quad Injector Driver with Diagnostic
	Bidirectional Switch for Mirror Control

### POWER AMPLIFIERS

Type Number	Description
<a href="#">TDA2003</a>	10W Audio Amplifier
<a href="#">TDA2004A</a>	10 + 10W Stereo Amplifier
<a href="#">TDA2005</a>	20W Bridge Amplifier
<a href="#">TDA7240A</a>	20W Bridge Amplifier
<a href="#">TDA7241BV</a>	20W Bridge Amplifier
<a href="#">TDA7256</a>	22W Bridge Amplifier
<a href="#">TDA7350</a>	Bridge-Stereo Amplifier
<a href="#">TDA7360</a>	Stereo/Bridge Amplifier with Clipping Detector
<a href="#">TDA7370</a>	Quad Power Amplifier with Clipping Detector
<a href="#">TDA7374</a>	2x22 Amplifier with Clipping Detector
<a href="#">TDA7362</a>	2x11W Amplifier with Clipping Detector

### LOW DROP REGULATORS

Type	Description
L4940Vxx	serie 1.5A
L4941	fixed 5V 1A
LFxx	serie 0.5A
LExxA/C	serie 100mA
LK115Dxx	serie 100mA