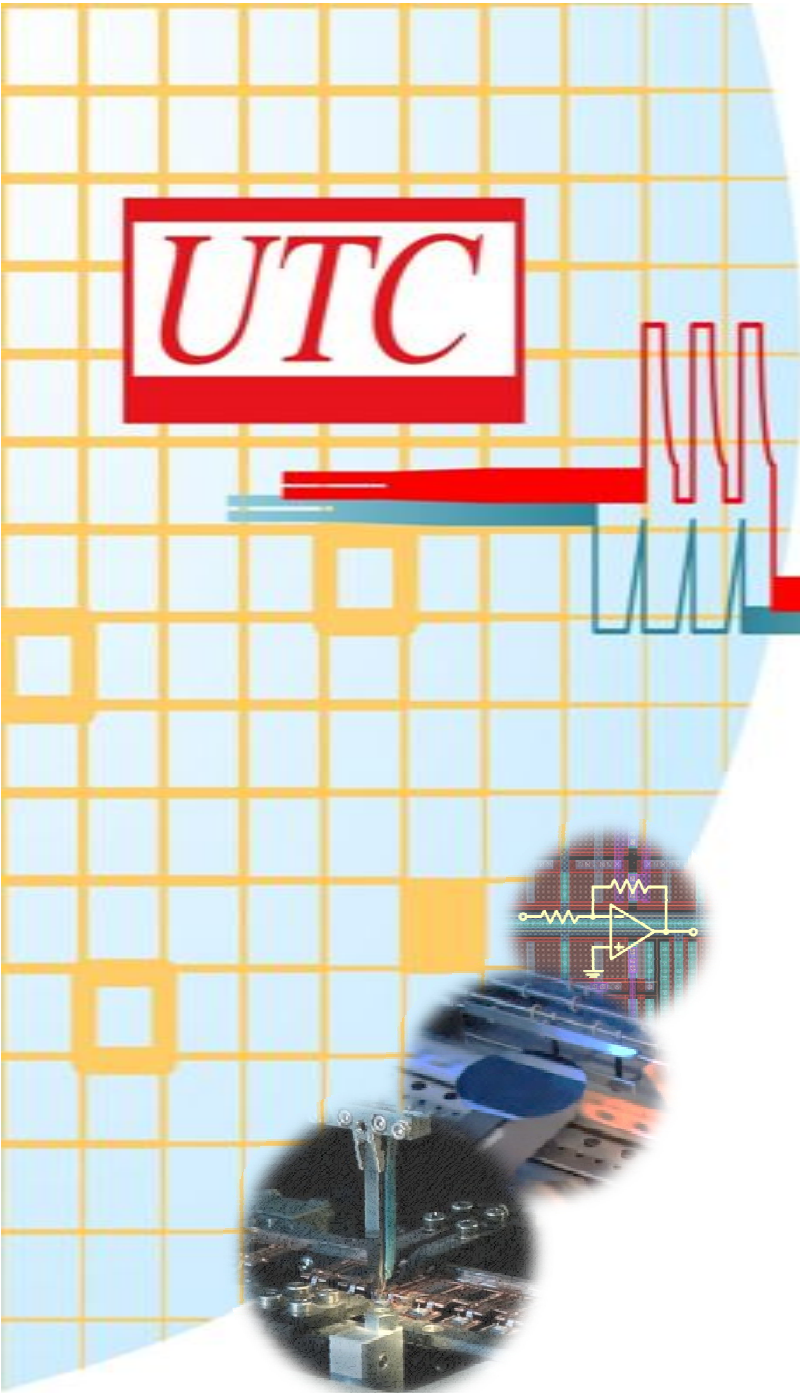




UTC

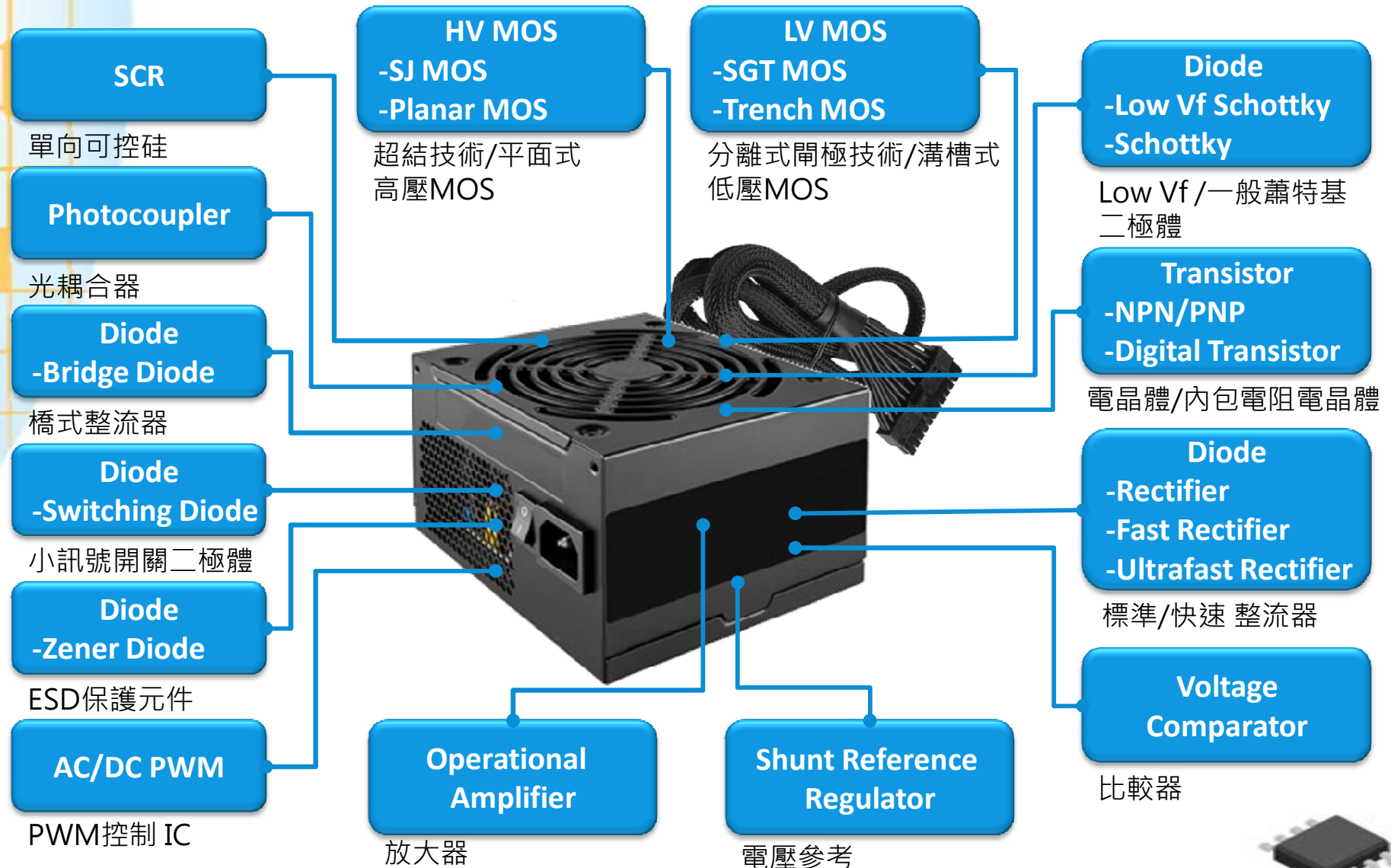
The background of the slide features a light blue and yellow grid pattern. On the left side, there are several circular inset images: a circuit board, a mechanical component, and a close-up of a circuit board. A red and blue waveform is also visible near the UTC logo.

Unisonic Technologies

Product Introduction



PC Power Solution





UTC Parts in PC Power

Category	Part No.	Description	Package
HV MOS	13NM50-U2	SJ MOS, VDSS=500V, ID=13A, RDS(ON) <0.4Ω	TO-262, TO-263, TO-220F1, TO-251, TO-252
HV MOS	15NM50-U2	SJ MOS, VDSS=500V, ID=15A, RDS(ON) <0.35Ω	TO-220, TO-220F/F1, TO-251, TO-262, TO-263, TO-252
HV MOS	15NM60	SJ MOS, VDSS=600V, ID=15A, RDS(ON) <0.35Ω	TO-220, TO-220F/F1, TO-263, TO-251, TO-252
HV MOS	18NM60	SJ MOS, VDSS=600V, ID=18A, RDS(ON) <0.28Ω	TO-220, TO-220F/F1/F2, TO-247, TO-263, TO-3P
HV MOS	21NM60	SJ MOS, VDSS=600V, ID=21A, RDS(ON) <0.19Ω	TO-220, TO-220F/F1/F2, TO-220WF, TO-247, TO-263, TO-3P, TO-3PF, DFN8080-4
HV MOS	24NM65	SJ MOS, VDSS=650V, ID=24A, RDS(ON) <0.16Ω	TO-220, TO-220F/F1/F2, TO-262, TO-263, TO-247, TO-247S, DFN8080-4
HV MOS	30NM65	SJ MOS, VDSS=650V, ID=30A, RDS(ON) <0.14Ω	TO-220, TO-220F1/F2, TO-247

UTC SJ MOSFET :
 $V_{DSS}=500V\sim 1200V$
 $I_D=0.2A\sim 75A$
 $R_{DS(ON)}=0.055\Omega\sim 19.2\ \Omega$





UTC Parts in PC Power

Category	Part No.	Description	Package
LV MOS	UT136N03	N-CH Trench MOS, VDSS=30V, ID=136A, RDS(ON) <3m ohm	TO-220,TO-263
LV MOS	UT50N04	N-CH Trench MOS, VDSS=40V, ID=50A, RDS(ON) <7m ohm	TO-220, TO-263, TO-252, PDFN3X3
LV MOS	USG04R007	N-CH SGT MOS, VDSS=40V, ID=100A, RDS(ON) <0.7m ohm	PDFN5X6, TOLL-8*
LV MOS	USG50N06	N-CH SGT MOS, VDSS=60V, ID=50A, RDS(ON) <6.5m ohm	TO-252, PDFN5X6, PDFN3X3
LV MOS	USG80N06	N-CH SGT MOS, VDSS=60V, ID=80A, RDS(ON) <4.5m ohm	TO-252, PDFN5X6
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <7.8m ohm	PDFN3X3, PDFN5X6, SOP-8, TO-252
LV MOS	UTT50N06M	N-CH Trench MOS, VDSS=60V, ID=50A, RDS(ON) <12m ohm	TO-220, TO-220F1, TO-251, PDFN5X6, TO-252
LV MOS	2N7002	N-CH Trench MOS, VDSS=60V, ID=0.3A, RDS(ON) <2 ohm	SOT-23-3

UTC SGT MOS :

VDSS = 40V~150V, RDS(ON) = 0.7mΩ~16mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2mΩ~8000mΩ

UTC P-CH Trench MOS :

VDSS = -12V~200V, ID = -0.1A~120A, RDS(ON) = 4.3mΩ~4500mΩ





UTC Parts in PC Power

Category	Part No.	Description	Package
Diode	TGBR30L60C	Low Vf Schottky Diode, VR=60V, IF=30A, VF< 0.6V	TO-220, TO-220F, TO-220F1
Diode	TGBR40V60C	Low Vf Schottky Diode, VR=60V, IF=40A, VF< 0.65V	TO-220, TO-220F, TO-220F1
Diode	SK34	Schottky Diode, VR=40V, IF=3A, VF< 0.5V	SMA, SMB, SMC, SOD-123F, SOD-123S

UTC TGBR Low VF Schottky :

@Single

VR = 40V~200V, IF = 3A~30A, VF = 0.45V~0.93V

@Dual

VR = 45V~150V, IF = 10A~40A, VF = 0.45V~0.89V

UTC MGBR Low VF Schottky :

@Single

VR = 30V~300V, IF = 2A~40A, VF = 0.43V~0.97V

@Dual

VR = 30V~300V, IF = 6A~60A, VF = 0.4V~0.99V

Category	Part No.	Description	Package
Diode	ES3J	Super fast rectifier, VR=600V, IF=3A, VF<1.5V, TRR<50nS	SMB, SMC
Diode	BYC8	Ultra fast rectifier, VR=600V, IF=8A, VF<2.9V, TRR<52nS	TO-220-2, SMB, TO-252





UTC Parts in PC Power

Category	Part No.	Description	Package
Transistor	2N4401	NPN Transistor, VCBO=60V, VCEO=40V, IC=600mA	TO-92
Transistor	2N4403	PNP Transistor, VCBO=-40V, VCEO=-40V, IC=-600mA	TO-92
Transistor	MMBT4401	NPN Transistor, VCBO=60V, VCEO=40V, IC=600mA	SOT-23, SOT-323
Transistor	MMBT4403	PNP Transistor, VCBO=-40V, VCEO=-40V, IC=-600mA	SOT-23, SOT-323
Transistor	MMBT2907A	PNP Transistor, VCBO=-60V, VCEO=-60V, IC=-600mA	SOT-23, SOT-323
Transistor	MMBT2222A	NPN Transistor, VCBO=75V, VCEO=40V, IC=600mA	SOT-23, SOT-323, SOT-723 SOT-523, DFN1006-3
Transistor	USS4350	NPN Transistor, VCBO=60V, VCEO=50V, IC=3A	SOT-23, SOT-89, SOT-223

Category	Part No.	Description	Package
Digital Transistor	DTC144E	NPN, Built-in bias resistors, VCC=50V, IO=100mA, R1=47K Ω , R2=47K Ω	SOT-23, SOT-323, SOT-523, TO-723, TO-92, TO-92SP

Category	Part No.	Description	Package
Shunt Reference Regulator	TL431	Adjustable Precision Shunt Regulator, VKA=Vref $\sim$ 36V, IKA=-1 $\sim$ 100mA, VREF=2.495V, IKA(min) <0.5mA	SOT-23-3, SOT-23, TSOT-23, SOT-25, SOT-89, SOP-8, TO-92, SIP-3





UTC Parts in PC Power

Category	Part No.	Description	Package
Photocoupler	UPC817	Phototransistor Photocoupler, VF< 1.4V, VCEO=35V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4,DIP-4C ,DIP-4MC,SMD-4C
Photocoupler	UPC816	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4 ,SMD-4C,DIP-4C
Photocoupler	UPC10XX	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	LSOP-4
Category	Part No.	Description	Package
OP	ULV662	Dual Operational Amplifier, Rail-to-Rail Output , VCC=2.5V~5.5V, IQ<9mA, VIO<1.5mV, SR=32V/uS, BW=50MHz	SOP-8, MSOP-8, DFN3030-10
OP	LV2622	Dual Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.5V~5.5V, IQ<0.4mA, VIO<3mV, SR=1.7V/uS, BW=3MHz	SOP-8, MSOP-8, TSSOP-8, DFN2030-8
OP	LM358	Dual Operational Amplifier, VCC=3V~32V, VIO<5mV	DIP-8, SOP-8, MSOP-8, TSSOP-8, DFN2020-8, SIP-9
Category	Part No.	Description	Package
Comparator	LM393	Dual Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<5mV	DIP-8, SOP-8, MSOP-8, TSSOP-8, DFN2020-8
Comparator	LM339	Quad Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<3mV	DIP-14, SOP-14, TSSOP-14, QFN-16(3x3)



UTC Parts in PC Power

Category	Part No.	Description	Package
SCR	MCR100	VRRM=200V~800V, IT(RMS)=0.8A, VGT<0.8V, IGT=30uA~100uA	SOT-23, SOT-223, SOT-89, TO-92
SCR	BT169D	VRRM=400V, IT(RMS)=0.8A, VGT<0.8V, IGT=25uA~200uA	SOT-23, SOT-223, SOT-89, TO-92

Category	Part No.	Description	Package
PWM	TL594	PWM Controller, Adjustable dead time, VCC=7~40V, fOSC=1~300Khz	SOP-16, DIP-16

Category	Part No.	Description	Package
Diode	BAT54C	Small Signal Schottky, VR=30V, IF=100mA, VF<0.8V	SOT-23

Category	Part No.	Description	Package
Diode	UMMSZ5242B	Zener Diode, VZ=12V, ZZT<30 ohm, IR<1uA	SOT-23, SOD-123, SOD-323, SOD-523, LL-34
Diode	UMMSZ5245B	Zener Diode, VZ=15V, ZZT<16ohm, IR<0.1uA	SOT-23, SOD-123, SOD-323, SOD-523, LL-34
Diode	UMMSZ5255B	Zener Diode, VZ=28V, ZZT<44 ohm, IR<0.1uA	SOT-23, SOD-123, SOD-323, SOD-523, LL-34



UTC Parts in PC Power

Category	Part No.	Description	Package
Diode	BAS316	High Speed Switching Diode, VR=75V, IF=250mA, VF<0.855V, Trr=4nS	SOD-323,SOD-323F,SOD-523
Diode	1N4148	High Speed Switching Diode, VR=100V, IF=200mA, VF<1V, Trr=4nS	SOD-123, SOD-323, SOD-523 SOT-23, SOT-323,SOD-80

Category	Part No.	Description	Package
Diode	1N4007G	Rectifier, VR=1000V, IF=1A, VF=1.1V	DO-41
Diode	RS1M	Fast Recovery Rectifier, VR=1000V, IF=1A, VF=1.3V, Trr=500nS	DO-41, SMA
Diode	RS1D	Fast Recovery Rectifier, VR=200V, IF=1A, VF=1.3V, Trr=150nS	DO-41, SMA

