

Subscriber Linecard

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Subscriber Linecard

VISHAY components used for Subscriber Linecards include:

- Power ICs and Controller ICs
 - Power MOSFETs
 - Analog Switches
 - Diodes and Rectifiers
 - Transient / Overvoltage Protection Devices
 - ESD Protection Devices
 - EMI Filters
 - Optocouplers and Solid-State Relays
 - Visible LEDs
 - Capacitors
 - Resistors
 - Inductors
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Application Overview

Today's network subscriber linecards handle many different functions by means of subgroups on the main board or individual modules. One of the most important functions of the main board is to provide distributed power to the subgroups or modules and switch them on and off in order to provide overvoltage / overcurrent protection and filtering, as well as to switch signals correctly. In many cases, the central power supply is part of the main board. Several dc-to-dc converters generate the individual voltages, either directly in or close to the application module as a point of load solution. This is the case for DSLAM, routers, xDSL, Ethernet, optical access, and PoE. Individual protection of data lines is essential to the safe operation of linecards.

Subscriber Linecard : Data Line, Ethernet

Filtering

Product Name	Status	Description	Features	Package	Q-Level
BAS16		SMD Small-Signal Fast-Switching Diode	IF= 300mA, VR= 75V	SMD SOT23	
CRCW0402		Rectangular Chip Resistors; Thick Film Technology; Lead (Pb)-free;	1Ohm-10MOhm, +/-1%	SMD 0402	
WSL2512		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R0005 - R5; 1 %; TCR <= ± 75ppm P70 = 1W	SMD 2512	

Subscriber Linecard : Data Line, Optical Access

Optocoupler

Product Name	Status	Description	Features	Package	Q-Level
4N25		Optocoupler, Phototransistor Output, With Base Connection;	Industrie Standard Phototransistor Coupler	DIP-6 / SMD-6	
CNY17-1		Optocoupler, Phototransistor Output, With Base Connection	Isolation Voltage 5300Vrms	SMD DIP-6 / SMD-6	
H11AA1		Optocoupler, Phototransistor Output, AC Input,	Isolation Voltage 5300Vrms, base connection	SMD DIP-6 / SMD-6	
ILD211T		Optocoupler, Phototransistor Output; Dual-Channel	Isolation Voltage 4000Vrms	SMD SOIC-8	
SFH6156		Optocoupler, Phototransistor Output, High-Reliability,	Isolation Voltage 5300Vrms	SMD DIP-4 / SMD-4	
TCET1109G		Optocoupler, Phototransistor Output, High-Temperature	extra low coupling capacity typ 0.2 μ F	SMD DIP-4	

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si4427BDY		P-Channel 30-V (D-S) MOSFET	RDSon=10.5 m Ω @ ID=-12.6A, VGS=-10V	SMD SO-8	

Subscriber Linecard : Data Line, Protection

Overvoltage, Transient and ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
ES1D		Ultrafast Plastic Rectifier; SMD	IF=1,0A, VR=50-200V, trr=15ns, low VF	SMD DO-214AC (SMA)	
MKT1813		Metallized Polyester Film Capacitor	C=470pF - 22μF, VR=63-1000VDC, VR=40-220VAC	TH / axial Axial leaded	
RMB2S		Surface-Mount Bridge Rectifier	IF=0,5A, VR=200-400V, trr=150ns;	SMD TO-269AA (MBS)	
SMCJ36CA		TRANSZORB® Transient Voltage Suppressors SMD;	VW=5,0-188V, PPPM=1500W, bi-directional	SMD DO-214AB (SMC)	

Subscriber Linecard : Data Line, xDSL

Blocking, Coupling

Product Name	Status	Description	Features	Package	Q-Level
MKT370		Metallized Polyester Film Capacitors 222237066*** , MKT;	400V, 5%, 5mm pitch	TH / radial typ. 4,5x9,0x7,2	
MKT371		Metallized Polyester Film Capacitors 222237066*** , MKT;	400V, 5%, 7,5mm pitch	TH / radial typ. 5,0x10,5x10	

Subscriber Linecard : DSLAM, DC/DC Power Supply

Optocoupler

Product Name	Status	Description	Features	Package	Q-Level
ILD207T		Optocoupler, Phototransistor Output; Dual Channel	Isolation Voltage 4000Vrms	SMD SOIC-8	
TCMT1107		Optocoupler, Phototransistor Output, Single/Quad Channel	Mini-Flat Package Half pitch	SMD SOP-4/SOP-16	

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si4946BEY	NEW	Dual N-Channel 60-V (D-S) 175°C MOSFET	RDSon=41mOhm@ ID=6.5A, VGS=10V	SMD SO-8	
Si7370DP		N-Channel 60-V (D-S) MOSFET	RDSon=11mOhm@ ID=15.8A, VGS=10V	SMD PowerPAK® SO-8	
Si7430DP	NEW	N-Channel 150-V (D-S) WFET	RDSon=45mOhm@ ID=26A, VGS=10V	SMD PowerPAK® SO-8	
Si7866ADP	NEW	N-Channel 20-V (D-S) MOSFET	RDSon=2.4mOhm@ ID=40A, VGS=10V	SMD PowerPAK® SO-8	
Si9945AEY		Dual N-Channel 60-V (D-S), 175°C MOSFET	RDSon=80mOhm@ ID=3.7A, VGS=10V	SMD SO-8	

Subscriber Linecard : Main Board, Distributed Power

Current Sense

Product Name	Status	Description	Features	Package	Q-Level
WSL2010		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R001 - R5; 1 %; TCR <= ± 75ppm P70 = 0.5W	SMD 2010	

Filtering

Product Name	Status	Description	Features	Package	Q-Level
293D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.10µF - 680µF, 4 - 50V, CECC standard types	SMD A-P Case	
594D		Solid Tantalum Chip Capacitors; TANTAMOUNT® Low ESR;	1µF-1500µF, 4-50V, Low ESR;	SMD B-R Case	
CRCW0402		Rectangular Chip Resistors; Thick-Film Technology; Lead (Pb)-free;	10hm-10MOhm, +/-1%	SMD 0402	
MCU 0805		Professional Flat Chip Resistors	R=100hm-1,5MOhm, P=0,125-0,2W	SMD 0805	
MMB0207		Professional MELF Resistors	R=0,10hm-15MOhm, P=0,4-1,0W	SMD / Melf 0207	
TNPW0603		Thin Film Flat Chip Resistors; High-Stability	R=100hm-332kOhm, P=0,1W	SMD 0603	
WKP330		Ceramic AC Capacitors	Class X1,760VAC; Class Y1,500VAC	TH / axial Axial	

General-Purpose Diode

Product Name	Status	Description	Features	Package	Q-Level
LL4148		SMD Small-Signal Fast-Switching Diodes	IF=300mA, VR=75V, VF=1,0V, ad IF=50mA	SMD SOD80	
LL4448		SMD Small-Signal Fast-Switching Diodes	IF=300mA, VR=75V, VF=1,0V, ad IF=100mA	SMD SOD80	

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IDCP2218		High-Current, Surface-Mount Inductor	10-220µH, IDC=0,35-1,44A	SMD 2218	
IHLP2525CZ		High-Current, Surface-Mount Inductor	0,1-10µH, IDC=7-60A, shielded	SMD 6,5x6,5x3,0mm	
IHLP5050CE		Low-Profile, High-Current Inductor	0,1-10µH, IDC=14-84A, shielded	SMD 13x13x3,5mm	
IMC-0805-01		SMD Inductor; High-Frequency; Molded;	10-1000nH, IDC=120-540mA	SMD 0805	
IMC-1210		SMD Inductor; Molded;	10nH-220µH, IDC=50-734mA	SMD 1210	
IMC1812		SMD Inductor; Molded;	10nH-1000µH, IDC=30-450mA	SMD 1812	

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si2304DDS	NEW	N-Channel 30-V (D-S) MOSFET	RDson=60mOhm ID=3.6 VGS=10V	SMD SOT-23 (TO-236)	
Si3440DV	NEW	N-Channel 150-V (D-S) MOSFET	RDson=375mOhm@ ID=1.5A, VGS=10V	SMD TSOP-6	
Si4482DY		N-Channel 100-V (D-S) MOSFET	RDson=60mOhm@ ID=4.6A,	SMD SO-8	

Product Name	Status	Description	Features	Package	Q-Level
			VGS=10V		
Si4486EY		N-Channel 100-V (D-S) MOSFET	RDSon=25mOhm@ ID=7.9A, VGS=10V	SMD SO-8	
Si4848DY		N-Channel 150-V (D-S) MOSFET	RDSon=85mOhm@ ID=3.7A, VGS=10V	SMD SO-8	
Si4896DY		N-Channel 80-V (D-S) MOSFET	RDSon=16.5mOhm@ ID=9.5A, VGS=10V	SMD SO-8	
Si9926BDY	NEW	Dual N-Channel 2.5-V (G-S) MOSFET	RDSon=20mOhm@ ID=8.2A, VGS=4.5V	SMD SO-8	

Protection

Product Name	Status	Description	Features	Package	Q-Level
SMCJ22A		TRANSZORB® Transient Voltage Suppressors SMD;	VW=5,0-188V, PPPM=1500W	SMD DO-214AB (SMC)	

Rectifier

Product Name	Status	Description	Features	Package	Q-Level
ES1D		Ultrafast Plastic Rectifier; SMD	IF=1,0A, VR=50-200V, trr=15ns, low VF	SMD DO-214AC (SMA)	
MURD620CT		Ultrafast Rectifier	IF=6A, VR=200V, trr=25ns, low Leakage	SMD D-PAK	
RMB2S		Surface-Mount Bridge Rectifier	IF=0,5A, VR=200-400V, trr=150ns;	SMD TO-269AA (MBS)	

Schottky Rectifier

Product Name	Status	Description	Features	Package	Q-Level
SS33		Surface-Mount Schottky Barrier Rectifier	IF=3A, VR=20-60V, VF=0,5-0,75V	SMD DO-214AB (SMC)	

Zener Diode

Product Name	Status	Description	Features	Package	Q-Level
MMBZ4689-V		SMD Small-Signal Zener Diodes	VZ=3,4-43V, Ptot=350mW	SMD SOT23	
TZMC5V1		Small-Signal Zener Diodes	VZ=2,4-75V, PPPtot=500mW	SMD SOD-80	

Subscriber Linecard : Main Board, Protection

Overcurrent, Overvoltage, Transient and ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
2381 661		PTC Thermistors for Overload Protection; Single Horizontal SMD;	R=10-50Ohm, I=2-10A	SMD SMD	
2381 673		PTC Thermistors for Overload Protection; Twin Vertical SMD;	R=10-50Ohm, I=2,5-4A	SMD Twin SMD	
593D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.47 µF-680 µF, 4-50 V, Low ESR, 100% surged	SMD A-E Case	
593D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.47µF-680µF, 4-50V, Low ESR, 100% surged	SMD A-E Case	
ES1D		Ultrafast Plastic Rectifier; SMD	IF=1,0A, VR=50-200V, trr=15ns, low VF	SMD DO-214AC (SMA)	
GSOT05C		SMD Two-Line ESD-Protection	VW=3-36V, PPPM=240-612W, VESD=30kV	SMD SOT23	
MBRB735		Schottky Barrier Rectifier	IF=7,5A, VR=35-60V, VF=0,57-0,65V	TH / radial TO-263AB	
P6KE27C		TRANSZORB® Transient Voltage Suppressors	VBR=6,8-540V, PPPM=600W, bi-directional	SMD DO-204AC (DO-15)	
RMB2S		Surface-Mount Bridge Rectifier	IF=0,5A, VR=200-400V, trr=150ns;	SMD TO-269AA (MBS)	
Si4465ADY	NEW	P-Channel MOSFET, 1.8 V(G-S) , -8 V(D-S)	RDson=16mOhm@ ID=-10A, VGS=-1.8V	SMD SO-8	
Si4804BDY		Dual N-Channel 30-V (D-S) MOSFET	RDson=22mOhm@ ID=7.5A, VGS=10V	SMD SO-8	
SM6T6V8		TRANSZORB® Transient Voltage Suppressors SMD;	VBR=6,8-220V, PPPM=600W	SMD DO-214AA (SMB)	
SMBJ130A		TRANSZORB® Transient Voltage Suppressors SMD;	VWM=5,0-188V, PPPM=600W	SMD DO-214AA (SMB J-Bend)	
SSA24/2BT	NEW	High-Current-Density Schottky Rectifier SMD	IF=2,0A, VR= 30-40V, VF=0,38-0,42V	SMD DO-214AC (SMA)	
SSC53L	NEW	High-Current-Density Schottky Rectifier SMD	IF=5,0A, VR=30-40V, VF=0,38-0,42V	SMD DO-214AB (SMC)	
SUM110N03-04P	NEW	N-Channel 30-V (D-S) 175°C MOSFET	RDson=4.2mOhm@ ID=110A, VGS=10V	SMD TO-263	
TP0202T		P-Channel 20-V (D-S) MOSFET	RDson=1.4Ohm@ ID=-0.41A, VGS=-10V	SMD SOT-23 (TO-236)	

Subscriber Linecard : Main Board, Switching

Bus and Control

Product Name	Status	Description	Features	Package	Q-Level
BAT54-V		SMD Small-Signal Schottky Diodes, Single and Dual;	IF=200mA, 30V	SMD SOT23	
CRCW0402		Rectangular Chip Resistors; Thick Film Technology; Lead (Pb)-free;	1Ohm-10MOhm, +/-1%	SMD 0402	
IMC 1812		Surface-Mount, Molded Inductor	0,01µH-1,0mH, IDC=30-450mA	SMD 1812	
MMA0204		Professional MELF Resistors	R=0,22Ohm-10MOhm, 0,25-0,4W	SMD / Melf 0204	
MMBZ5233-V		SMD Small-Signal Zener Diodes	VZ=3,0-75V, PPPtot=300mW	SMD SOT23	
Si3424CDV		N-Channel 30-V (D-S) MOSFET	RDSon=26mOhm@ ID=8A, VGS=10V	SMD TSOP-6	
Si4896DY		N-Channel 80-V (D-S) MOSFET	RDSon=16.5mOhm@ ID=9.5A, VGS=10V	SMD SO-8	
Si7102DN	NEW	N-Channel 12-V (D-S) MOSFET	RDSon=3.8mOhm@ ID=35A, VGS=4.5V	SMD PowerPAK 1212-8	
Si9926BDY	NEW	Dual N-Channel 2.5-V (G-S) MOSFET	RDSon=20mOhm@ ID=8.2A, VGS=4.5V	SMD SO-8	
TZMC5V1		Small-Signal Zener Diodes	VZ=2,4-75V, PPPtot=500mW	SMD SOD-80	

xDSL Switching

Product Name	Status	Description	Features	Package	Q-Level
293D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.10µF - 680µF, 4 - 50V, CECC standard types	SMD A-P Case	
593D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.47µF-680µF, 4-50V, Low ESR, 100% surged	SMD A-E Case	
B2S	NEW	Surface-Mount Bridge Rectifier	IF=0,5A, VR=200-600V	SMD TO-269AA (MBS)	
BAW56		SMD Small-Signal Schottky Diode; Dual	IF=250mA, VR=70V	SMD SOT23	
BZX84-V		SMD Small-Signal Zener Diodes	P=300mW , VZ= 2,4-75V	SMD SOT23	
DG9409	NEW	Low-Voltage Analog Multiplexers Precision 8-Ch/Dual 4-Ch	2,7-12V, single supply or 3 to 6V dual supply	SMD QFN 16 (4x4 mm)	
DG9415DQ		Single 4 x 1 and Dual 2 x 1 Multiplexers	2,7-12V, rSD= 14Ohm	SMD MSOP-10	
IHLP2525BD		Low-Profile, High-Current Inductor	0,1-10µH, IDC=7-50A, shielded	SMD 6,5x6,5x2,4mm	
IHLP5050CE		Low-Profile, High-Current Inductor	0,1-10µH, IDC=14-84A, shielded	SMD 13x13x3,5mm	
IHLP5050FD		Low-Profile, High-Current Inductor	0,1-10µH, IDC=15,5-120A, shielded	SMD 13x13x6,5mm	
ILB1206		Multilayer Ferrite Beads	19-2000Ohm, IDC=100-500mA, self-shielded	SMD 1206	
ILD2		Optocoupler, Phototransistor Output; Dual- and Quad-Channel	Isolation Voltage 5300Vrms	SMD DIP-8/16,	

Product Name	Status	Description	Features	Package	Q-Level
				SMD-8/16	
ISC-1812		SMD Inductor; Shielded; Molded;	0,1μH-1,0mH, IDC=66-552mA	SMD SMD	
LH1525		1 Form A Solid-State Relays	Isolation Voltage 5300Vrms, high-speed	SMD DIP-6 / SMD-6	
MKT1813		Metallized Polyester Film Capacitor	C=470pF - 22μF, VR=63-1000VDC, VR=40-220VAC	TH / axial Axial leaded	
SFH601		Optocoupler, Phototransistor Output, With Base Connection;	Isolation Voltage 5300Vrms	SMD DIP-6 / SMD-6	
SFH615		Optocoupler, Phototransistor Output, High-Reliability,	Isolation Voltage 5300Vrms	SMD DIP-4 / SMD-4	
Si4840DY		N-Channel 40-V (D-S) MOSFET	RDSon=9mOhm@ ID=14A, VGS=10V	SMD SO-8	
Si4848DY		N-Channel 150-V (D-S) MOSFET	RDSon=85mOhm@ ID=3.7A, VGS=10V	SMD SO-8	
Si4866BDY	NEW	N-Channel MOSFET, 1.8 V(G-S) , 12 V(D-S)	RDSon=7.4mOhm@ ID=18.2A, VGS=1.8V	SMD SO-8	
Si7110DN		N-Channel 20-V (D-S) Fast-Switching MOSFET	RDSon=5.3mOhm@ ID=21.1A, VGS=10V	SMD PowerPAK 1212-8	
Si7904BDN	NEW	DUAL N-Channel MOSFET, 1.8V(G-S) , 20V(D-S)	RDSon=45mOhm@ ID=6A, VGS=1.8V	SMD PowerPAK 1212-8	
SUD50N02-06P		N-Channel MOSFET, 20 V(D-S) , 175°C	RDSon=6mOhm@ ID=26A, VGS=10V	SMD TO-252	
TP0101K	NEW	P-Channel 20-V (D-S) MOSFET, Low-Threshold	RDSon=650mOhm@ ID=-0,58A, VGS=-4,5V	SMD SOT-23 (TO-236)	
WSL2512		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R0005 - R5; 1 %; TCR <= ± 75ppm P70 = 1W	SMD 2512	

Subscriber Linecard : Point-Of-Load (PoL) Power, DC/DC Converter

Analog Switch

Product Name	Status	Description	Features	Package	Q-Level
DG419		Precision CMOS Analog Switches	15V Analog Signal Range, RDSon = 20 Ohm	SMD SOT-23 (TO-236)	

Current Sense

Product Name	Status	Description	Features	Package	Q-Level
WSL1206		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R001 - R2; 1 %; TCR <= ± 75ppm P70 = 0.25W	SMD 1206	

Filtering

Product Name	Status	Description	Features	Package	Q-Level
293D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.10µF - 680µF, 4 - 50V, CECC standard types	SMD A-P Case	
515D		Aluminum Capacitors + 85 °C, Miniature, Radial Lead;	0.1 µF-18000µF, 6.3-450V, high CV	SMD SMD	
516D		Aluminum Capacitors + 85 °C, Miniature, Radial Lead;	0.47µF-10000µF, 6.3-450V, high CV	TH / axial Axial	
595D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0,1µF-1500µF, 4-50V, maximum CV	SMD A-T case	

General-Purpose Diode

Product Name	Status	Description	Features	Package	Q-Level
1N4148W-V		SMD Small-Signal Fast-Switching Diode	IF=150mA, VR=75V	SOD123	
BAS21-V		SMD Small-Signal Switching Diodes, High-Voltage; SMD	IF= 200mA, VR= 250V	SMD SOT23	
BAS40-06-V		SMD Small-Signal Schottky Diodes, Single and Dual;	IF= 200mA, VR=40V	SMD SOT23	
BAT54-V		SMD Small-Signal Schottky Diodes, Single and Dual;	IF=200mA, VR=30V	SMD SOT23	
BAT54-V		SMD Small-Signal Schottky Diodes, Single and Dual;	IF=200mA, 30V	SMD SOT23	
BAT54WS-V		Small-Signal Schottky Diodes, Single and Dual; SMD	IF=200mA, VR=30V	SMD SOT23	
BAV99- V		SMD Small-Signal Schottky Diode; Dual	IF=250mA, VR=70V	SMD SOT23	
LL4148		SMD Small-Signal Fast Switching Diodes	IF=300mA, VR=75V, VF=1,0V, ad IF=50mA	SMD SOD80	
LL4150		SMD Small-Signal Fast Switching Diode	IF=600mA, VR=50V, VF=1,0V, ad IF=200mA	SMD SOD80	

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHA-104		Filter Inductors	500µH, IDC=1,6A	TH / axial axial leaded	
IHLP2525CZ		High-Current, Surface-Mount Inductor	0,1-10µH, IDC=7-60A, shielded	SMD 6,5x6,5x3,0mm	
IHLP5050CE		Low-Profile, High-Current Inductor	0,1-10µH, IDC=14-84A, shielded	SMD 13x13x3,5mm	
IHLP5050FD		Low-Profile, High-Current Inductor	0,1-10µH, IDC=15,5-120A, shielded	SMD 13x13x6,5mm	
ILSB0805		Monolithic Chip Inductors	0,047-33µH, IDC=5-300mA, self-shielded	SMD 0805	
IMC1812		SMD Inductor; Molded;	10nH-1000µH,	SMD	

Product Name	Status	Description	Features	Package	Q-Level
			IDC=30-450mA	1812	

Optocoupler

Product Name	Status	Description	Features	Package	Q-Level
IL207AT		Optocoupler; Phototransistor Output; AC Input; Base Connection;	Isolation Voltage 4000Vrms	SMD SOIC-8A	
IL216AT		Optocoupler; Phototransistor Output; AC Input; Base Connection;	Isolation Voltage 4000Vrms	SMD SOIC-8	
ILD207T		Optocoupler, Phototransistor Output; Dual Channel	Isolation Voltage 4000Vrms	SMD SOIC-8	
ILD256T		Optocoupler, Phototransistor Output; Dual Channel; AC Input	Isolation Voltage 4000Vrms	SMD SOIC-8	
LH1525		1 Form A Solid-State Relays, High-Speed	Isolation Voltage 5300Vrms, high-speed	SMD DIP-6 / SMD-6	

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
2N7002K		N-Channel 60-V (D-S) MOSFET	RD _{son} =20Ohm@ ID=300mA, VGS=10V	SOT-23 (TO-236)	
Si2301CDS		P-Channel 2.5-V (G-S) MOSFET	RD _{son} =.1120Ohm VGS=-4.5V ID= 3.1Amp	SMD SOT-23 (TO-236)	
Si2302CDS		N-Channel MOSFET, 20V(D-S)	RD _{son} =57mohm ID=2.9A VGS=4.5V	SMD SOT-23 (TO-236)	
Si2304DDS	NEW	N-Channel 30-V (D-S) MOSFET	RD _{son} =60mOhm@ ID=3.6A,VGS=10V	SMD SOT-23 (TO-236)	
Si2305CDS		P-Channel MOSFET, 1.8V(G-S) , -8V(D-S)	RD _{son} =65mOhm ID=-4.3A VGS=-1.8V	SMD SOT-23 (TO-236)	
Si2306BDS	NEW	N-Channel MOSFET, 30V(D-S)	RD _{son} =47mOhm@ ID=4A, VGS=10V	SMD SOT-23 (TO-236)	
Si2309DS		P-Channel 60-V (D-S) MOSFET	RD _{son} =340mOhm@ ID=-1.25A, VGS=-10V	SMD SOT-23 (TO-236)	
Si2316BDS	NEW	N-Channel 30-V (D-S) MOSFET	RD _{son} =50mOhm@ ID=4.5A, VGS=10V	SMD SOT-23 (TO-236)	
Si2325DS	NEW	P-Channel 150-V (D-S) MOSFET	RD _{son} =1.2Ohm@ ID=-0.69A, VGS=-10V	SMD SOT-23 (TO-236)	
Si2328DS		N-Channel 100-V (D-S) MOSFET	RD _{son} =250mOhm@ ID=1.5A, VGS=10V	SMD SOT-23 (TO-236)	
Si2333CDS		P-Channel 12-V (D-S) MOSFET	RD _{son} =35mOhm@ ID=-5.1A VGS=-4.5V	SMD SOT-23 (TO-236)	
Si3420DV		N-Channel 200-V (D-S) MOSFET	RD _{son} =3.7Ohm@ ID=0.5A, VGS=10V	SMD TSOP-6	
Si3442BDV		N-Channel 2.5-V (G-S) MOSFET	RD _{son} =57mOhm@ ID=4.2A, VGS=4.5V	SMD TSOP-6	
Si3458DV		N-Channel 60-V (D-S) MOSFET	RD _{son} =100mOhm@ ID=3.2A, VGS=10V	SMD TSOP-6	
Si3585DV		N-Channel 60-V (D-S) MOSFET	RD _{son} =100mOhm@ ID=3.2A,	SMD TSOP-6	

Product Name	Status	Description	Features	Package	Q-Level
			VGS=10V		
Si3900DV		Dual N-Channel 20-V (D-S) MOSFET	RDSon=125mOhm@ ID=2.4A; VGS=4.5V	SMD TSOP-6	
Si3948DV	NEW	Dual N-Channel 30-V (D-S) MOSFET	RDSon=105mOhm@ ID=2.5A, VGS=10V	SMD TSOP-6	
Si4346DY	NEW	N-Channel 30-V (D-S) MOSFET	RDSon=23mOhm@ ID=8A, VGS=10V	SMD SO-8	
Si4401BDY	NEW	P-Channel 40-V (D-S) MOSFET	RDSon=14mOhm@ ID=-10.5A, VGS=-10V	SMD SO-8	
Si4410BDY		N-Channel 30-V (D-S) MOSFET	RDSon=13.5mOhm@ ID=10A, VGS=10V	SMD SO-8	
Si4412ADY		N-Channel 30-V (D-S) MOSFET	RDSon=24mOhm@ ID=8A, VGS=10V	SMD SO-8	
Si4420BDY	NEW	N-Channel 30-V (D-S) MOSFET	RDSon=8.5mOhm@ ID=13.5A, VGS=10V	SMD SO-8	
Si4435BDY		P-Channel 30-V (D-S) MOSFET	RDSon=20mOhm@ ID=-9.1A, VGS=-10V	SMD SO-8	
Si4463BDY	NEW	P-Channel MOSFET, 2.5 V(G-S) , -20V(D-S)	RDSon=11mOhm@ ID=-13.7A, VGS=-10V	SMD SO-8	
Si4470EY		N-Channel 60-V (D-S) MOSFET	RDSon=11mOhm@ ID=12.7A, VGS=10V	SMD SO-8	
Si4490DY		N-Channel 200-V (D-S) MOSFET	RDSon=80mOhm@ ID=4.0A, VGS=10V	SMD SO-8	
Si4500BDY		Complementary MOSFET Half-Bridge (N- and P-Channel)	Doual -N/P N-Channal, RDSon=20/60mOhm	SMD SO-8	
Si4562DY		N- and P-Channel 2.5-V (G-S) MOSFET	Doual -N/P N-Channal, RDSon=25/33mOhm	SMD SO-8	
Si4626DY	NEW	N-Channel 30-V (D-S) MOSFET	RDSon=3.6mOhm@ ID=30A, VGS=10V	SMD SO-8	
Si4800BDY		N-Channel Reduced Qg, Fast-Switching MOSFET	RDSon=18.5mOhm@ ID=9A, VGS=10V	SMD SO-8	
Si4804BDY		Dual N-Channel 30-V (D-S) MOSFET	RDSon=22mOhm@ ID=7.5A, VGS=10V	SMD SO-8	
Si4816BDY	NEW	Dual N-Channel MOSFET, 30V(D-S) , with Schottky Diode	Asymetrical RDSon RDSon=11.5 / 18.5 mΩ	SMD SO-8	
Si4835BDY		P-Channel 30-V (D-S) MOSFET	RDSon=18mOhm@ ID=-9.6A, VGS=-10V	SMD SO-8	
Si4836DY	NEW	N-Channel 12-V (D-S) MOSFET	RDSon=3mOhm@ ID=25A, VGS=4.5V	SMD SO-8	
Si4842DY		N-Channel 30-V (D-S) MOSFET	RDSon=4.5mOhm@ ID=23A, VGS=10V	SMD SO-8	

Product Name	Status	Description	Features	Package	Q-Level
Si4848DY		N-Channel 150-V (D-S) MOSFET	RDson=85mOhm@ ID=3.7A, VGS=10V	SMD SO-8	
Si4850EY		N-Channel Reduced Qg, Fast-Switching MOSFET	RDson=22mOhm@ ID=8.5A, VGS=10V	SMD SO-8	
Si4858DY	NEW	N-Channel 30-V (D-S) MOSFET	RDson=5.25mOhm@ ID=20A, VGS=10V	SMD SO-8	
Si4864DY	NEW	N-Channel 20-V (D-S) MOSFET	RDson=305mOhm@ ID=25A, VGS=4.5V	SMD SO-8	
Si4874BDY	NEW	N-Channel MOSFET, 30 V(D-S)	RDson=7mOhm@ ID=16A, VGS=10V	SMD SO-8	
Si4888DY		N-Channel Reduced Qg, Fast-Switching MOSFET	RDson=7mOhm@ ID=16A, VGS=10V	SMD SO-8	
Si4892DY		N-Channel 30-V (D-S) MOSFET	RDson=12mOhm@ ID=12.4A, VGS=10V	SMD SO-8	
Si4896DY		N-Channel 80-V (D-S) MOSFET	RDson=16.5mOhm@ ID=9.5A, VGS=10V	SMD SO-8	
Si4922BDY	NEW	Dual N-Channel 30-V (D-S) MOSFET	RDson=16mOhm@ ID=8A, VGS=10V	SMD SO-8	
Si4936BDY	NEW	Dual N-Channel 30-V (D-S) MOSFET	RDson=35mOhm@ ID=6.9A, VGS=10V	SMD SO-8	
Si4944DY	NEW	Dual N-Channel 30-V (D-S) MOSFET	RDson=9.5mOhm@ ID=12.2A, VGS=10V	SMD SO-8	
Si7356ADP	NEW	N-Channel 30-V (D-S) MOSFET	RDson=3mOhm@ ID=40A, VGS=10V	SMD PowerPAK® SO-8	
Si7366DP	NEW	N-Channel 20-V (D-S) MOSFET	RDson=5.5mOhm@ ID=20A, VGS=10V	SMD PowerPAK® SO-8	
Si7370DP		N-Channel 60-V (D-S) MOSFET	RDson=11mOhm@ ID=15.8A, VGS=10V	SMD PowerPAK® SO-8	
Si7384DP	NEW	N-Channel Reduced Qg, Fast-Switching MOSFET	RDson=8.5mOhm@ ID=18A, VGS=10V	SMD PowerPAK® SO-8	
Si7404DN		N-Channel 30-V (D-S) Fast-Switching MOSFET	RDson=13mOhm@ ID=13.3A, VGS=10V	SMD PowerPAK 1212-8	
Si7414DN		N-Channel 60-V (D-S) MOSFET	RDson=25mOhm@ ID=8.7A, VGS=10V	SMD PowerPAK 1212-8	
Si7634BDP	NEW	N-Channel 30-V (D-S) MOSFET	RDson=5.4mOhm@ ID=40A, VGS=10V	SMD PowerPAK® SO-8	
Si7636DP		N-Channel 30-V (D-S) MOSFET	RDson=4mOhm@ ID=28A, VGS=10V	SMD PowerPAK® SO-8	
Si7866ADP	NEW	N-Channel 20-V (D-S) MOSFET	RDson=2.4mOhm@ ID=40A, VGS=10V	SMD PowerPAK® SO-8	
Si7892BDP	NEW	N-Channel 30-V (D-S) MOSFET	RDson=4.2mOhm@ ID=25A,	SMD PowerPAK® SO-8	

Product Name	Status	Description	Features	Package	Q-Level
			VGS=10V		
Si9407AEY		P-Channel 60-V (D-S), 175°C MOSFET	RDson=120mOhm@ ID=-3.5A, VGS=-10V	SMD SO-8	
Si9435BDY		P-Channel 30-V (D-S) MOSFET	RDson=42mOhm@ ID=-5.7A, VGS=-10V	SMD SO-8	
Si9926BDY	NEW	Dual N-Channel 2.5-V (G-S) MOSFET	RDson=20mOhm@ ID=8.2A, VGS=4.5V	SMD SO-8	
Si9933BDY	NEW	Dual P-Channel 2.5-V (G-S) MOSFET	RDson=60mOhm@ ID=-4.7A, VGS=-4.5V	SMD SO-8	
SUB65P06-20		P-Channel 60-V (D-S), 175°C MOSFET	RDson=20mOhm@ ID=-65A, VGS=-10V	SMD TO-263	
SUD50N02-06P		N-Channel MOSFET, 20 V(D-S) , 175°C	RDson=6mOhm@ ID=26A, VGS=10V	SMD TO-252	
SUD50N03-07		N-Channel 30-V (D-S) 175°C MOSFET	RDson=7mOhm@ ID=20A, VGS=10V	SMD TO-252	
SUD50N03-09P		N-Channel MOSFET, 30 V(D-S)	RDson=9.5mOhm@ ID=63A, VGS=10V	SMD TO-252	
SUM110P06-07L		P-Channel 60-V (D-S) 175°C MOSFET	RDson=6.9mOhm@ ID=-110A, VGS=-10V	SMD TO-263	
SUM70N04-07L	NEW	N-Channel 40-V (D-S) 175°C MOSFET	RDson=7.4mOhm@ ID=70A, VGS=10V	SMD TO-263	
SUM90N08-4m8P		N-Channel 75-V (D-S) MOSFET	RDson=4.8mOhm@ ID=90A, VGS=10V	SMD TO-263	
SUM90N10-8m2P		N-Channel 100-V (D-S) MOSFET	RDson=8.2mOhm@ ID=90A, VGS=10V	SMD TO-263	
TP0610K		P-Channel 60-V (D-S) MOSFET	RDson=60Ohm@ ID=-185mA, VGS=-10V	SMD SOT-23 (TO-236)	

Protection

Product Name	Status	Description	Features	Package	Q-Level
1.5SMC62A		TRANSZORB® Transient Voltage Suppressors SMD	Pppm=1500W, VBR=6.8-540V	SMD DO-214AB (SMC)	
P6KE82A		TRANSZORB® Transient Voltage Suppressors	VBR=6,8-540V, PPPM=600W	SMD DO-204AC	
P6SMB68A		TRANSZORB® Transient Voltage Suppressors	VBR=6,8-540V, PPPM=600W	SMD DO-214AA	
SMB10J5.0A		TRANSZORB® Transient Voltage Suppressors SMD;	VW=5-40V, PPPM=800-1000W, high power density	SMD DO-214AA (SMB)	
SMBJ5.0C		TRANSZORB® Transient Voltage Suppressors SMD;	VW=5-188V, PPPM=600W, bi-directional	SMD DO-214AA (SMB J-Bend)	
SMBJ64CA		TRANSZORB® Transient Voltage Suppressors	VW=5-188V, PPPM=600W, bi-directional	SMD DO-214AA	

Product Name	Status	Description	Features	Package	Q-Level
		SMD;		(SMB J-Bend)	

Rectifier

Product Name	Status	Description	Features	Package	Q-Level
ES2D		Ultrafast Plastic Rectifier; SMD	IF=2A, VR=50-200V, VF=0,9V, trr=20ns	SMD DO-214AA (SMB)	
MB2S		Surface-Mount Bridge Rectifier;	IF=0,5A, VR=200-600V, VF=1,0V	SMD TO-269AA (MBS)	
RS1G		Surface-Mount Fast-Switching Rectifier	IF=1A, VR=50-800V, VF=1,3V, trr=150-500ns	SMD DO-214AC (SMA)	
S1D		SMD Glass-Passivated Rectifier	IF=1A, VR=50-1000V, VF=1,1V	SMD DO-214AC (SMA)	

Schottky Rectifier

Product Name	Status	Description	Features	Package	Q-Level
10BQ040		Schottky Rectifier	VR=40V, If=1A	SMD DO-214AA (SMB)	
B340A	NEW	High-Current-Density Schottky Rectifier SMD	IF= 3A, VR= 30-40V	SMD DO-214AC (SMA)	
SL42		SMD Schottky Barrier Rectifier	IF=4A, VR=20-40V, VF=0,31-0,35V	SMD DO-214AB (SMC)	
SS10P4	NEW	High-Current-Density; Schottky Barrier Rectifiers; SMD;	IF=10A, VR=30-40V, VF=0,41V	SMD TO-277A (SMPC)	
SS1H10		High-Voltage SMD Schottky Rectifier	IF=1A, VR=90-100V, VF=0,62V	SMD DO-214AC (SMA)	
SS22		Surface-Mount Schottky Barrier Rectifier	IF=2A, VR=20-60V, VF=0,6-0,7V	SMD DO-214AA (SMB)	
SS2H10		High-Voltage SMD Schottky Rectifier	IF=2A, VR=90-100V, VF=0,65V	SMD DO-214AA (SMB)	
SS33		Surface-Mount Schottky Barrier Rectifier	IF=3A, VR=20-60V, VF=0,5-0,75V	SMD DO-214AB (SMC)	
SS33		Surface-Mount Schottky Barrier Rectifier	IF=3A, VR=20-60V, VF=0,5-0,75V	SMD DO-214AB (SMC)	
SS36		Surface-Mount Schottky Barrier Rectifier	IF=3A, VR=60V, VF=-0,75V	SMD DO-214AB (SMC)	

Temp. Sense

Product Name	Status	Description	Features	Package	Q-Level
NTHS0805		NTC Thermistors, Surface-Mount Chip	R=1-220kOhm, 1-10%	SMD 0805	

Zener Diode

Product Name	Status	Description	Features	Package	Q-Level
1N5232B		Small-Signal Zener Diodes	P=500mW, VZ=2,4V - 60V	DO35	
BZX84-V		SMD Small-Signal Zener Diodes	P=300mW, VZ=2,4-75V	SMD SOT23	
DZ23C13-V		SMD Small-Signal Zener Diodes, Dual	VZ=2,7-51V, Ptot=300mW, common cathode	SMD SOT23	
MMBZ5257-V		SMD Small-Signal Zener Diodes	P=300mW, VZ=3,0-75V	SMD SOT23	
MMSZ5229-V		SMD Small-Signal Zener Diodes	P=500mW, VZ=3,0-75V	SMD SOD123	

Subscriber Linecard : Router, DC/DC Power Supply

Filtering

Product Name	Status	Description	Features	Package	Q-Level
150D		Solid-Electrolyte TANTALEX® Capacitors; Hermetically Sealed;	up to 330µF, up to 125V, hermetically sealed	TH / axial axial leaded	
293D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.10µF - 680µF, 4 - 50V, CECC standard types	SMD A-P Case	
593D		Solid Tantalum Chip Capacitors; TANTAMOUNT®	0.47µF-680µF, 4-50V, Low ESR, 100% surged	SMD A-E Case	
594D		Solid Tantalum Chip Capacitors; TANTAMOUNT® Low ESR;	1µF-1500µF, 4-50V, Low ESR;	SMD B-R Case	

General -urpose Diode

Product Name	Status	Description	Features	Package	Q-Level
BAS16-V		SMD Small-Signal Fast-Switching Diode	IF= 300mA, VR= 75V	SMD SOT23	

General-Purpose Diode

Product Name	Status	Description	Features	Package	Q-Level
BAT54_V		SMD Small-Signal Schottky Diodes, Single and Dual;	IF=200mA, 30V	SMD SOT23	

Optocoupler

Product Name	Status	Description	Features	Package	Q-Level
LH1500		1 Form A Solid-State Relay	Isolation Voltage 5300Vrms	SMD DIP-6 / SMD-6	
LH1510		1 Form A Solid-State Relay	Isolation Voltage 5300Vrms	SMD DIP-6 / SMD-7	

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
2N7002K		N-Channel 60-V (D-S) MOSFET	RDson=20hm@ ID=300mA, VGS=10V	SOT-23 (TO-236)	
Si4410BDY		N-Channel 30-V (D-S) MOSFET	RDson=13.5mOhm@ ID=10A, VGS=10V	SMD SO-8	
Si6963BDQ	NEW	Dual P-Channel MOSFET, 2.5V(G-S) , -20V(D-S)	RDson=13.5mOhm@ ID=10A, VGS=10V	SMD TSSOP-8	
SUM90N10-8m2P		N-Channel 100-V (D-S) MOSFET	RDson=8.2mOhm@ ID=90A, VGS=10V	SMD TO-263	

Protection

Product Name	Status	Description	Features	Package	Q-Level
P4SMA		TRANSZORB® Transient Voltage Suppressors SMD;	VBR=6,8-540V, PPPM=400W	SMD DO-214AC (SMA)	
P6KE		TRANSZORB® Transient Voltage Suppressors	VBR=6,8-540V, PPPM=600W	SMD DO-204AC	

Rectifier

Product Name	Status	Description	Features	Package	Q-Level
ES3D		Ultrafast Plastic Rectifier; SMD	IF=3A, VR=50-200V, VF=0,9V, trr=20ns	SMD DO-214AB (SMC)	

Product Name	Status	Description	Features	Package	Q-Level
FES16BT		Ultrafast Plastic Rectifier	IF=16A, VR=50-600V, VF=0,975-1,5V, trr=35-50ns	TH / radial TO-220AC	
RS3K		Surface-Mount Fast Switching Rectifier	IF=3,0A, VR=50-800V, VF=1,3V, trr=150-500ns	SMD DO-214AB (SMC)	
US1M		Surface-Mount Ultrafast Rectifier	IF=1,0A, VR=50-1000V, VF=1,0/1,7V, trr=50/75ns	SMD DO-214AC (SMA)	

Schottky Rectifier

Product Name	Status	Description	Features	Package	Q-Level
1N5818		Schottky Barrier Rectifiers	IF=1A, VR=20-40V	DO-204AL (DO-41)	
SS32		Surface-Mount Schottky Barrier Rectifier	IF=3A, VR=20V, VF=0,5V	SMD DO-214AB (SMC)	

Zener Diode

Product Name	Status	Description	Features	Package	Q-Level
MMBZ5226B-V		SMD Small-Signal Zener Diodes	P=300mW, VZ=3,0-75V	SMD SOT23	
MMBZ5240B-V		SMD Small-Signal Zener Diodes	P=300mW, VZ=3,0-75V	SMD SOT23	

Subscriber Linecard : XDSL, DC/DC Power Supply

Opto-Coupler

Product Name	Status	Description	Features	Package	Q-Level
IL207AT		Optocoupler; Phototransistor Output; AC Input; Base Connection;	Isolation Voltage 4000Vrms	SMD SOIC-8A	
SFH615		Optocoupler, Phototransistor Output, High-Reliability,	Isolation Voltage 5300Vrms	SMD DIP-4 / SMD-4	
SFH6916		Optocoupler, Phototransistor Output, Quad Channel;	Mini-Flat Package Half pitch	SMD SOP-16	

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si4410BDY		N-Channel 30-V (D-S) MOSFET	RDSon=13.5mOhm@ ID=10A, VGS=10V	SMD SO-8	
Si4418DY	NEW	N-Channel 200-V (D-S) MOSFET	RDSon=130mOhm@ ID=3A, VGS=10V	SMD SO-8	
Si4420BDY	NEW	N-Channel 30-V (D-S) MOSFET	RDSon=8.5mOhm@ ID=13.5A, VGS=10V	SMD SO-8	
Si6928DQ		Dual N-Channel 30-V (D-S) MOSFET	RDSon=35mOhm@ ID=4A, VGS=10V	SMD TSSOP-8	
Si6954ADQ		N-Channel 2.5-V (G-S) Battery Switch	RDSon=53mOhm@ ID=3.4A, VGS=10V	SMD TSSOP-8	
SiP2800	NEW	Power IC, Current Mode Controller, Low Power Consumption	100µA start-up , 500µA operating current	SMD SOIC-8 TSSOP-8	
SUM47N10-24L	NEW	N-Channel 100-V (D-S) 175°C MOSFET	RDSon=24mOhm@ ID=47A, VGS=10V	SMD TO-263	