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Category Interface

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LVDS Interface ICs

27bit LVDS Transmitter 27 : 4 Serializer									
Part No.	Type	bits (bit)	Color Depth	Input Specification	Output Specification	Clock Frequency (MHz)	Supply Voltage (V)	Operating Temperature (°C)	Package
BU90T81	Serializer	27	8	LVC MOS	LVDS Single Link	20 to 112	1.65 to 1.95	-20 to +85	VBGA048W040
27bit LVDS Transmitter 27 : 8 Serializer									
BU90T82	Serializer	27	8	LVC MOS	LVDS Dual Link	10 to 174	1.62 to 1.98/ 1.62 to 3.60	-40 to +85	SBGA072T070A
35bit LVDS Transmitters 35 : 5 Serializer									
BU8254KVT	Serializer	35	10	LVC MOS	LVDS Single Link	8 to 112	3.0 to 3.6	-40 to +85	TQFP64V
BU8254GUW	Serializer	35	10	LVC MOS	LVDS Single Link	8 to 112	3.0 to 3.6	-20 to +85	VBGA099W060
56bit LVDS Transmitter 56 : 8 Serializer									
BU7988KVT	Serializer	56	8	LVC MOS	LVDS Dual Link	8 to 112	3.0 to 3.6	-20 to +85	TQFP100V
35bit LVDS Receiver 5 : 35 Deserializer									
BU90R104	Deserializer	35	10	LVDS Single Link	LVC MOS	8 to 112	2.3 to 3.6	-40 to +85	TQFP64V
56bit LVDS Receiver 8 : 56 Deserializer									
BU7985KVT	Deserializer	56	8	LVDS Dual Link	LVC MOS	20 to 112	3.0 to 3.6	-20 to +85	TQFP100V
70bit LVDS Distributor									
BU90RT102	Serializer/ Deserializer	70	10	LVDS	LVDS	20 to 135	3.0 to 3.6	-20 to +85	HTSSOP-C64
4bit LVDS Driver									
BU90LV047A	Driver	4	-	LVC MOS	LVDS	250	3.0 to 3.6	-40 to +85	SSOP-B16
4bit LVDS Receiver									
BU90LV048	Receiver	4	-	LVDS	LVC MOS	250	3.0 to 3.6	-40 to +85	SSOP-B16
4bit LVDS Transceiver									
BU90LV049A	Transceiver	4	-	LVC MOS/LVDS	LVC MOS/LVDS	250	3.0 to 3.6	-40 to +85	SSOP-B16

Multiple Input Switch Monitor LSIs

22ch Models											
Part No.	Supply Voltage (V)	Switch Input Number	Switch Input Voltage Range (V)	Wetting Current (mA)	Operating Current Intermittent Monitoring 50ms (Max) (µA)	Control I/F	Clock Frequency (MHz)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3378MUV-M	6.0 to 28.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	22	-14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	-40 to +125	VQFN48MVCV070	FSs	YES
33ch Models											
BD3381EKV-C	6.0 to 28.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	33	-14 to +40	1/3/5/10/15 (Pull up/Pull down)	110	SPI	up to 4.4	-40 to +125	HTQFP64BV	FSs	YES
10ch Models											
BD3376EFV-C	8.0 to 26.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	10	-14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	-40 to +125	HTSSOP-B30	FSs	YES

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*1 For more information about "ComfySIL™ Functional Safety", please refer to the reverse side of the cover.

LIN Transceivers

LIN Transceivers									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of LIN pin (V)	Transmission Rate (Max) (kbps)	Supply Current at Sleep Mode (Typ) (µA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD41033FJ-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A, ISO17987-4:2016 (12V)	5 to 27	-40 to +125	-27 to +40	20	3	SOP-J8	FSs	YES
BD41030FJ-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	-40 to +125	-27 to +40	20	3	SOP-J8	FSs	YES
BD41030HFN-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	-40 to +125	-27 to +40	20	3	HSON8	FSs	YES

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CAN Transceivers

CAN Transceivers									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of CAN pin (V)	Transmission Rate (Max) (Mbps)	Supply Current at Standby Mode (Typ) (µA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41041FJ-C	ISO 11898-2: 2016	4.75 to 5.25	-40 to +125	-27 to +40	1	10	SOP-J8	FSs	YES
BD41044FJ-C	ISO 11898-2: 2016	4.75 to 5.25	-40 to +125	-27 to +40	5	10	SOP-J8	FSs	YES

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CXPI Transceivers

CXPI Transceivers									
Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (°C)	Absolute Maximum Rating of BUS (V)	Transmission Rate (kbps)	Supply Current at Sleep Mode (Typ) (µA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41003FJ-C	JASO_D015_3	7 to 18	-40 to +125	-27 to +40	18.8 to 20.0	3	SOPJ-8	FSs	YES

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USB Type-C Power Delivery

For POWER SOURCE (POWER Role: Source, DATA Role: DFP, Internal Shunt Reg., Variable OCP, Variable OVP, Internal Vconn SW)										
Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Initial Supply Capable Voltage/Current (V/A)	Tolerant Voltage at CC Pins (V)	Gate Drivers for Nch FET	After OCP Behavior After OVP Behavior	DP Alternate Mode	Operating Temperature (°C)	Package
BD93F50MWV	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable	28	For Source: 1pair (For Sink: 1pair)	OCP: Selectable OVP: Selectable	DP_SINK with Ext-MCU	-30 to +85	UQFN040V5050
For POWER SOURCE & SINK (POWER Role: Source/Sink/DRP, DATA Role: DFP/UFP/Dual Role Data)										
Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V)		Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (°C)	Package	
				Dead Battery	Non Dead Battery					
BD93E30GWL	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable (Sink) / 5V (Source)		6.0	For Sink: 1pair For Source: 1pair	-30 to +85	UCSP50L2C	
BD93E70GWL				5V (Sink) / 5V to 20V Selectable (Source)						DP_SOURCE
For POWER SINK (POWER Role: Sink, DATA Role: UFP)										
Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V) Without Ext-MCU	Start of Automatic Power Receiving Without Ext-MCU	CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (°C)	Package
BD93E11GWL	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable	Selectable	6.0	For Sink: 1pair For Source: 1pair	-	-30 to +85	UCSP50L2C
BD93F10MWV										
New BD93F12MWV	3.1 to 20.0		R2.2/R3.1			28				UQFN040V5050
BD91N01NUX	4.0 to 5.5		R1.3/-	Type-C 5V	✓	28	For Sink: 1path			VSON010X3020

Interface IC for Gas Water Heaters

For Gas Water Heaters Interface IC									
Part No.	Supply Voltage (V)	Circuit Current (mA)	Oscillation Frequency (MHz)	Detection Frequency (kHz)	Pseudo-sine Wave Output Circuit	External Analog Signal Detection Circuit	Analog Switch (ch)	Operating Temperature (°C)	Package
BD88030FV	4.5 to 5.5	2.5	4	250	✓	✓	2	-20 to +80	SSOP-B16