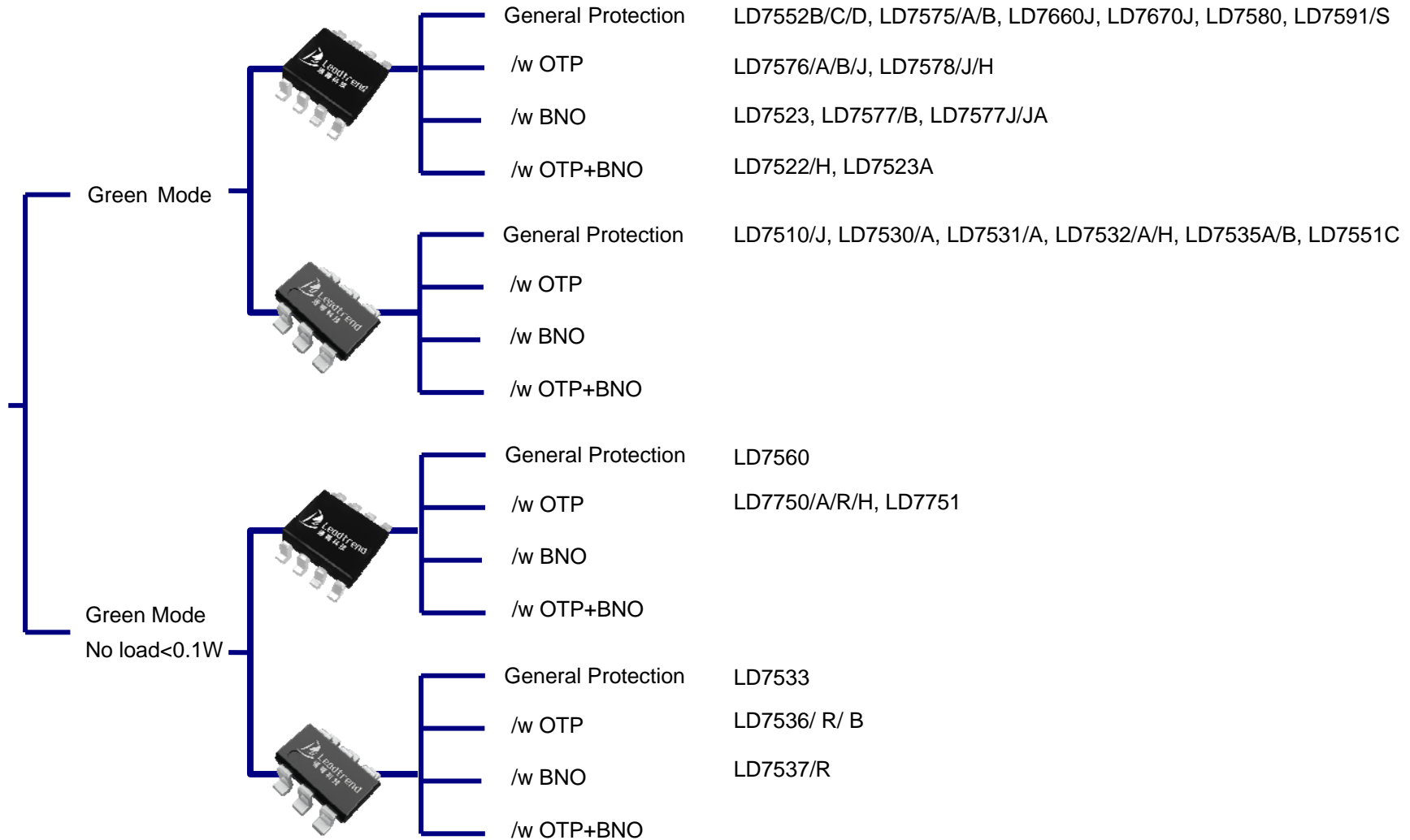


AC/DC Converters





AC/DC Converters



Hi-Voltage Start-Up Green Mode PWM Controller

Part Number	Start-Up	UVLO ON (V)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.	Freq. Swapping	Protection					LEB (nS)	Package (RoHS/ Green)
							OCP	OVP	OLP	OTP	BNO		
LD7560	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	-	-	250	SOP-8/ DIP-8
LD7575	1mA	16.0	10.0	500	Adj.	-	Yes	Yes	Yes	-	-	350	SOP-8/ DIP-8
LD7575A	1mA	16.0	10.0	500	Adj.	-	Yes	Yes	Yes	-	-	200	SOP-8
LD7575B	1mA	16.0	10.0	500	Adj.	-	Yes	Yes	Yes	-	-	220	SOP-8/ DIP-8
LD7576	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	Inter.	-	230	SOP-8/ DIP-8
LD7576A	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	Inter.	-	230	SOP-8/ DIP-8
LD7576B	1mA	16.0	10.0	500	130KHz	Yes	Yes	Yes	Yes	Inter.	-	230	SOP-8/ DIP-8
LD7576J	1mA	16.0	10.0	500	100KHz	Yes	Yes	Yes	Yes	Inter.	-	230	SOP-8/ DIP-8
LD7577/B	1mA	16.0	10.0	500	65KHz	-	Yes	Yes	Yes	-	Yes	250	SOP-8/ DIP-8
LD7577J	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	Inter.	Yes	320	SOP-8/ DIP-8
LD7577JA	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	Inter.	Yes	320	SOP-8/ DIP-8
LD7578	1mA	16.0	10.0	500	65KHz	-	Yes	Yes	Yes	Ext.	-	250	SOP-8/ DIP-8
LD7578H	1mA	16.0	10.0	500	65KHz	Yes	Yes	Latch	Latch	Ext.	-	320	SOP-8/ DIP-8
LD7578J	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	Ext.	-	320	SOP-8/ DIP-8
LD7750	1mA	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	Ext.	-	250	SOP-8/ DIP-8
LD7750A	1mA	16.0	10.0	500	65KHz	Yes	Yes	Latch	Auto	Ext	-	250	SOP-8/ DIP-8
LD7750R	1mA	16.0	10.0	500	65KHz	Yes	Yes	Auto	Auto	Ext	-	250	SOP-8/ DIP-8
LD7750H	1mA	16.0	10.0	500	65KHz	Yes	Yes	Latch	Latch	Ext	-	250	SOP-8/ DIP-8
LD7580	1mA	16.0	10.0	500/ 800	QR mode		Yes	Yes	Yes	Inter	-	250	SOP-8/ DIP-8



AC/DC Converters



Green Mode PWM Controller

Part Number	Start-Up	UVLO ON (V)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.	Freq. Swapping	Protection					LEB (nS)	Package (RoHS/ Green)
							OCP	OVP	OLP	OTP	BNO		
LD7522	35μA	16.0	10.0	500	65KHz	-	Yes	Yes	Yes	Ext.	Yes	350	SOP-8/ DIP-8
LD7522H	35μA	16.0	10.0	500	65KHz	-	Yes	Latch	Latch	Ext.	Yes	350	SOP-8/ DIP-8
LD7523	35μA	12.75	9.75	500	65KHz	-	Yes	Yes	Yes	-	Yes	350	SOP-8/ DIP-8
LD7523A	35μA	12.75	9.75	500	65KHz	-	Yes	Yes	Yes	Ext.	Yes	350	SOP-8/ DIP-8
LD7530/A	20μA	16.0	10.0	300	65KHz	Yes	Yes	Yes	Yes	-	-	200	SOT-26/ DIP-8
LD7531	20μA	16.0	10.0	300	Adj.	Yes	Yes	Yes	Yes	-	-	190	SOT-26/ DIP-8
LD7531A	20μA	16.0	10.0	300	Adj.	Yes	Yes	Yes	Yes	-	-	240	SOT-26/ DIP-8
LD7532	20μA	16.0	10.0	300	65KHz	Yes	Yes	Latch	Yes	-	-	220	SOT-26
LD7532A	20μA	16.0	10.0	300	65KHz	Yes	Yes	Latch	Yes	-	-	220	SOT-26
LD7532H	20μA	16.0	10.0	300	65KHz	Yes	Yes	Latch	Latch	-	-	220	SOT-26
LD7533	18μA	16.0	8.5	300	65KHz	Yes	Yes	Yes	Yes	-	-	230	SOT-26/ DIP-8
LD7535A	20μA	16.0	10.0	300	Adj.	-	Yes	Yes	Yes	-	-	350	SOT-26/ DIP-8
LD7535B	20μA	16.0	10.0	300	Adj.	-	Yes	Yes	Yes	-	-	200	SOT-26
LD7536/R	20μA	16.0	10.0/8.5	300	65KHz	Yes	Yes	Latch/ Auto	Yes	Ext.	-	230	SOT-26
	Improved light load efficiency												
LD7536B	20μA	16.0	8.5	400	100KHz	Yes	Yes	Latch	Yes	Ext.	-	230	SOT-26
LD7537	20μA	16.0	8.5	300	65KHz	Yes	Yes	Latch	Yes	-	Yes	230	SOT-26
LD7537R	20μA	16.0	8.5	300	65KHz	Yes	Yes	Auto	Yes	-	Yes	230	SOT-26
LD7551C	20μA	16.0	10.0	500	Adj.	Yes	Yes	Yes	Yes	-	-	240	SOT-26
LD7552B	20μA	16.0	10.0	500	Adj.	-	Yes	Yes	Yes	-	-	350	SOP-8, DIP-8
LD7552C	20μA	16.0	10.0	500	Adj.	Yes	Yes	Yes	Yes	-	-	240	SOP-8, DIP-8



AC/DC Converters



Part Number	Start-Up	UVLO	UVLO	Driving Cap.	Switching	Freq.	Protection					LEB	Package
LD7552D	20 μ A	16.0	10.0	500	65KHz	Yes	Yes	Yes	Yes	-	-	240	SOP-8/ DIP-8
LD7751	320	16.0	9.0	500	65KHz	Yes	Yes	Yes	Yes	Inter.	-	250	SOP-7/ DIP-8

Primary Side Regulator Controller

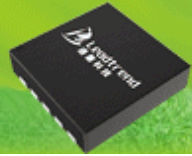
Part Number	Start-Up	UVLO ON (V)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.	Freq. Swapping	Protection					LEB (nS)	Package (RoHS/ Green)
							OCP	OVP	OLP	OTP	BNO		
LD7510/10J	20 μ A	16.0	8.5	300	65KHz	Yes	Yes	Yes	Yes	-	-	225	SOT-26/ DIP-8

Transition Mode PFC Controller

Part Number	Start-Up	UVLO ON (V)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.	Freq. Swapping	Protection					LEB (nS)	Package (RoHS/ Green)
							OCP	OVP	OLP	OTP	BNO		
LD7591	30 μ A	12.0	8.5	800	Variable	Yes	Yes	Yes	No	Inter	-	250	SOP-8/ DIP-8
LD7591S	30 μ A	12.0	8.5	800	Variable	Yes	Yes	Yes	No	Inter	-	250	SOP-8/ DIP-8

Low Power Off-Line Switcher (PWM + MOS)

Part Number	Start-Up	UVLO ON (V)	UVLO OFF (V)	R _{DS(ON)}	VDSS (V)	Switching Freq.	Freq. Swapping	Protection					Package (RoHS/ Green)
								OCP	OVP	OLP	OTP	BNO	
LD7660J	20 μ A	16.0	10	9 Ω	650	65KHz	Yes	Yes	Yes	Yes	-	-	DIP-8
LD7904J	320 μ A	16.0	9.0	2.8 Ω	700	100KHz	Yes	Yes	Yes	Yes	Inter.	-	DIP-6 DIP-7
LD7932R	20 μ A	16.0	8.5	6 Ω	700	65KHz	Yes	Yes	Yes	Yes	Inter.	Yes	DIP-7



DC/DC Converters



Single Synchronous Buck PWM Controller

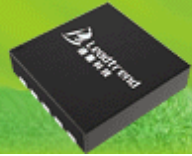
Part Number	V _{IN}	V _{CC}	Freq.	Linear Controller	Operating Temperature	Synchronous Rectifier	Package
LD7120	5V	5V	300KHz	No	0~70°C	Yes	SOP-8
LD7120A	5V	5V	300KHz	No	-30~85°C	Yes	SOP-8
LD7129	3.3V/5V	5V/12V	600KHz	Yes	0~70°C	Yes	SOP-14

Single Asynchronous Buck PWM Converter

Part Number	V _{IN}	Freq.	Internal MOS	V _{FB} Tolerance	Duty Ratio	Max. Output Current	Package
LD7412	4.3~18V	400K typ.	Yes	±2%	0~100%	2A	SOP-8
LD7413	4.3~18V	400K typ.	Yes	±2%	0~100%	3A	SOP-8

Photoflash Capacitor Charger

Part Number	V _{CC} Max.	Shutdown Current	Auto Refresh	Internal MOS	Charging Mode	V _{FB} Tolerance	IGBT Driver	Max. Ton Time	Package
LD7261	5.5V	100μA	Yes	No	Linearly Decrease	±1.0%	Yes	5.5μS	MSOP-10
LD7261A	5.5V	<1μA	No	No	Linearly Decrease	±1.0%	Yes	7.5μS	MSOP-10
LD7268	5.5V	100μA	Yes	No	Constant On Time	±1.0%	Yes	5.0μS	MSOP-10
LD7268A	5.5V	<1μA	No	No	Constant On Time	±1.0%	Yes	6.0μS	MSOP-10
LD7271	5.5V	<1.5μA	No	Yes	Programmable 8-level current limit	±1.5%	Yes	30μS	WDFN-8



DC/DC Converters

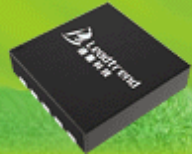


Photoflash Capacitor Charge (MOS Integrated)

Part Number	V _{CC} Max	Shutdown Current	Auto Refresh	Internal MOS	Charging Mode	V _{FB} Tolerance	IGBT Driver	Max Ton Time	Package
LD7264	5.5V	<1.5μA	No	Yes	Programmable 8-level current limit	V _{TRIP} ±1.5%	Yes	20μS	WDFN-8/ WDFN-10
LD7265/A	5.5V	<1.5μA	No	Yes	Programmable 8-level current limit	±1.5%	Yes	32μS	WDFN-10
LD7266A	5.5V	<1.5μA	No	Yes	Constant On Time	±1.5%	Yes	7.0μS	MSOP-10/ WDFN-10
LD7270	5.5V	<1.5μA	No	Yes	Constant Peak Current	±1.5%	Yes	30μS	WDFN-10

Multi-Channel Regulator

Part Number	V _{IN} Min	V _{IN} Max	Shutdown Current	No. of DC/DC Output	Switching Frequency	Package
LD7241A	1.5V	5.5V	2.5μA (typ.)	Boost *1, Boost or Buck *1 Buck*2, Current Source*1	1MHz	WQFN-40
LD7241	1.5V	5.5V	2.5μA (typ.)	Boost *1, Boost or Buck *1 Buck*2, Current Source*1, Shutter*1	1MHz	WQFN-40
LD7252	1.5V	5.5V	6.5μA (typ.)	Boost*1, Boost or Buck*1 Buck*2, HV Boost*1, Inverter*1, HV Boost or Current Source*1	CH1~CH4 : 2MHz CH5~CH7 : 1MHz	WQFN-40
LD7253	1.5V	5.5V	6.5μA (typ.)	Boost*1, Boost or Buck*1, Buck*2, HV Boost*1, Inverter*1, HV Boost or Current Source*1	CH1~CH7 : 1MHz	WQFN-40



DC/DC Converters



Boost Controller/ VFM Step up Converter

Part Number	V _{IN} Max.	Frequency	Output Voltage	Output Voltage Accuracy	Package
LD7280	6.5V	120KHz	1.8V~5.0V	±2%	SOT-25
LD7282	6.5V	160KHz	1.8V~5.0V	±2%	SOT-25

LDO

Part Number	Input Voltage	Quiescent Current (typ.)	Output Current Limit (typ.)	Output Voltage	Dropout Voltage (typ.)	Reference Voltage Tolerance	Package
LD6903	5~19V	70μA	80mA	Adj.	0.15V @60mA	±1.5%	SC70-6
LD6909	2.8~5.5V	100μA	420mA	1.8V~3.3V (0.1V a step)	0.22V @300mA	±2%	SC70-6
LD6911	2.8~5.5V	140μA	420mA	1.8V~3.3V (0.1V a step)	0.22V @300mA	±2%	SOT-25/ SC70-6
LD6912	2.8~5.5V	140μA	420mA	1.5V~3.3V (0.1V a step)	0.22V @300mA	±2%	SC70-5
LD6914	2.5~6.0V	40μA	250mA	Adj.	0.15V@150mA	±1%	SOT-25/ SC70-5
LD6915	2.8~5.5V	270μA	420mA	1.5~3.3V (0.1V a step)	0.27V@300mA	±2%	SOT-23/ SC70-5 SC82-4
LD6919	2.5V~5.5V	80μA	600mA	Adj/ 1.5V~3.3V (0.1V step)	0.23V@300mA	±2%	SC-70-6 WDFN-6
LD6921	2.5V~5.5V	80μA	600mA	1.5V~3.3V (0.1V step)	0.23V@300mA	±2%	SC-70-6, SOT-25
LD6922	2.5V~5.5V	80mA	600mA	1.2V to 3.3V (step : 0.1V)	0.23V@300mA	70dB	SC82-4, SOT23-5, SC70-6, WDFN-6L
LD6969	2.0~6.0V	5μA	200mA	1.5V~3.4V (0.1V step)	0.35V @50mA	±2%	SOT-25, 26 SC70-3, 70-6
LD6991	2.0V~6.0V	5μA	150mA	1.5V~3.3V (0.1V step)	0.35V@50mA	±2%	SC70-6



Negative LDO

Part Number	Input Voltage	Quiescent Current (typ.)	Output Current Limit (typ.)	Output Voltage	Dropout Voltage (typ.)	Reference Voltage Tolerance	Package
LD6904	-11~ -5V	70 μ A	150mA	Adj.	0.15V @60mA	\pm 1.5%	SC70-6

Dual LDO

Part Number	Input Voltage	Quiescent Current (typ.)	Output Current Limit (typ.)	Output Voltage	Dropout Voltage (typ.)	Reference Voltage Tolerance	Package
LD6918	2.5V~5.5V	100 μ A	420mA	1.5V~3.3V (0.1V step)	0.24V@300mA	\pm 2%	SOT-26, WDFN-8, WDFN-6

Li-ion Battery Charger

Part Number	Operation Input Voltage Range	V _{IN} , Max.	Control Topology	Charge Current (Max.)	Charge Status Outputs	Battery Charge Voltage	System Regulation Voltage V _{sys}	Package
LD6275X	4.1V~6.0V	16V	Linear	1.5A	2	4.2V/4.1V	5.3V/ 4.4V	WQFN-20



Boost Controller/ WLED Driver

Part Number	V _{IN} Max.	Frequency	LED Current	LED Driving Type	Package
LD7205	5.5V	1MHz	100mA@ flash mode	Dual- Serial	WQFN-16
LD7209	5.5V	1.1MHz	20mA	Serial	WDFN-8
LD7291	3.6V	210KHz	18mA	Parallel	SOT26
LD7293	3.6V	120KHz	350mA	-	SOT25

Charge Pump/ WLED Driver

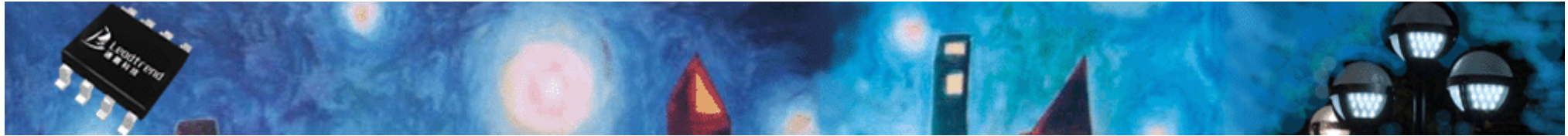
Part Number	V _{IN} Max.	Frequency	LED Current	LED Driving Type	Package
LD7202	5.5V	1MHz	20mA	Serial	WDFN-8

DC-in / WLED Driver

Part Number	V _{IN} Max.	Frequency	LED Current	LED Driving Type	Package
LD7850	70V	20K~450K	Adj.	Serial	MSOP-10/ SOP-8
LD7860	30V	20K~1MHz	Up to 1A	Serial	TSOT-25, MSOP-8, SOT-89

AC-in / WLED Driver

Part Number	V _{IN} Max.	Topology	Power Output	Power Factor	Package
LD7591	90V~264V AC	Flyback	>15W	>0.90	SOP-8
LD7820	90V~264V AC	Primary Feedback	<15W	Ext.	DIP-8/ SOT-26
LD7921/22	90V~264V AC	Primary Feedback	<15W	Ext.	DIP-8/ SOT-26



LED Backlight

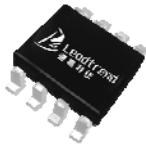




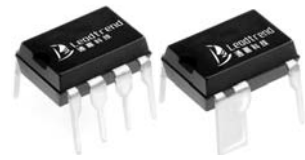
Part Number	V _{IN} Max.	Channel #	Frequency	LED Current	LED Driving Type	Application	Package
LD7882	30V	8	250K~1200KHz	Adj.	Serial/ Parallel	<15" MB/ MNT	WQFN24/ SOP24 TSSOP24
LD7883	30V	6	100K~1MHz	Adj.	Serial/ Parallel	15"~27" AIO/ MNT	SOP28, TSSOP28
LD7884	15V	8	-	Adj.	Serial/ Parallel	>32" TV	SOP28/ DIP28
LD7886	15V	4	-	Adj.	Serial/ Parallel	>32" TV	SOP-20
LD7889	36V	4	100~1000KHz	Adj.	Serial/ Parallel	15"~29" AIO/ MNT	SOP-16, TSSOP-16, DIP-16

All above products are ROHS compliant/ Green Packaged.



Package Information



SOP-8 (SOP-16, MSOP-10)	SOT-25/ 26	SC70-3/ SC70-6	SOT-89	WDFN-8, 10	DIP-8, DIP-6
					
2.5K/Reel	3K/ Reel	3K/ Reel	3K/ Reel	2500/ Reel	3.6K/ Box

LD reserves the right to make changes or corrections to its products at any time without notice. Customers should verify the datasheets are current and complete before placing order.