

BPsemi LED LIGHTING SELECTION GUIDE												
	P/N	Package	PF	Topology		Iout			MOS	Isolation	Application	
	Standby Power Supply	BP8501CH	SOP8	0.5	BUCK	<60mA	Continue	<100mA	Pulse	650V/30Ω	Non-isolated	3.3V/5V CV Ultralow standby power
BP2525AH		SOT33-5	0.5	BUCK	<150mA	Continue	<200mA	Pulse	650V/35Ω	Non-isolated	3.3V/5V CV Ultralow standby power	
BP2525B		SOT33-5	0.5	BUCK	<200mA	Continue	<300mA	Pulse	500V/17Ω	Non-isolated	3.3V/5V CV Ultralow standby power	
BP2525CH		SOT33-5	0.5	BUCK	<280mA	Continue	<450mA	Pulse	650V/16Ω	Non-isolated	3.3V/5V CV Ultralow standby power	
BP2525D		SOT33-5	0.5	BUCK	<300mA	Continue	<500mA	Pulse	500V/9Ω	Non-isolated	3.3V/5V CV Ultralow standby power	
BP2525F		SOT33-5	0.5	BUCK	<500mA	Continue	<700mA	Pulse	650V/5.6Ω	Non-isolated	3.3V/5V CV Ultralow standby power	
BP2522B		SOT33-5	0.5	BUCK	<150mA	Continue	<250mA	Pulse	500V/17Ω	Non-isolated	12V/24V CV Ultralow standby power	
BP2522D		SOT33-5	0.5	BUCK	<240mA	Continue	<350mA	Pulse	500V/9Ω	Non-isolated	12V/24V CV Ultralow standby power	
BP8519C		SOT23-5	0.5	BUCK	<50mA				700V/40Ω	Non-isolated	CV Low standby power	
BP8516F		SOP8	0.5	BUCK	<300mA				700V/8.5Ω	Non-isolated	CV Low standby power	
BP2519		SOT23-5	0.5	BUCK	<2A				External	Non-isolated	CC/CV	
BP2516FP		SOP8	0.5	BUCK	<600mA				650V/4.7Ω	Non-isolated	CC/CV	
BP2513DP		SOP8	0.5	BUCK	<350mA				500V/9Ω	Non-isolated	CC/CV	
BP3519		SOT23-5	0.5	FLYBACK	<50W				External	Isolated	CC/CV	
BP3516C		SOP8	0.5	FLYBACK	<5W				650V/14Ω	Isolated	CC/CV	
Acoustic and Luminous Intensity Controller AC/DC Non-isolated 0.5PF	P/N	Package	PF	HV-Vcc	MOSFET		Application	OTP	VCC Internal	Hold time (s)	Vin=176Vac-265Vac	
					RDS-ON	Vds					Iout max (mA)	Vout range (V)
	LIS9452U	SOP7	0.5	Y	16Ω	550V	Acoustic Luminous BUCK	Y	Y	20	120	36-170
	LIS9452Y	SOP7	0.5	Y	24Ω	650V		Y	Y	20	100	36-170
	LIS9455U	SOP7	0.5	Y	3.5Ω	550V		Y	Y	20	240	36-170
	LIS8052U	SOP7	0.5	Y	210mΩ	100V		Y	Y	20	1000	3-80
LIS9450U	SOT23-5	-	Y	NON		Acoustic Luminous controller	-	Y	30	-	-	
PIR (passive infra-red) controller	P/N	Package	Application		LDO Built in LDO	standby power dissipation (uA)		signal processing analog/digital		Set hold time	Set sensitivity	/MAX drive current(mA)
	LIS1002	SOP8	(Passive Infrared Detector)		N	10		Digital		Y	Y	10
Active infrared controller	P/N	Package	Application		LDO Built in LDO	standby power dissipation (uA)		signal processing analog/digital		HV-Vcc	Set sensitivity	/MAX drive current(mA)
	LIS1102	SOP8	Wave motion detection		N	110		Analog		Y	N	60
DC/DC	P/N		Package	MOS RDS-ON		Topology			Vin	Vout	PWM/	Analog
	BP1808A		ESOP-8	0.3Ω		BUCK-BOOST /BOOST/BUCK			3V-60V	<60V	Y	
	BP1808		ESOP-8	0.3Ω		BUCK-BOOST /BOOST/BUCK			3V-60V	<60V	Y	
	BP1371		SOT89-5	0.3Ω		BUCK			5V-40V	<40V	Y	
	BP1360		SOT23-5	0.8Ω		BUCK			5V-30V	<30V	Y	
	BP1361		SOT89-5	0.6Ω		BUCK			5V-30V	<30V	Y	

Wall Switch Dimming	P/N	Package	Rdson	Vds	Pout	OVP	VCC	Function	Status		
	BP2805B	SOT33-5	8.5Ω	500V	<14W (Iout<260mA)	External	Y	Three stages dimming	100%->40%->15%		
	BP2805D	SOT33-5	4.8Ω	500V	<17W(Iout<380mA)	External	Y	Three stages dimming	100%->40%->15%		
	BP2809	SOT33-5	External		-	External	Y	Three stages dimming	100%->40%->15%		
Wall Switch CCT	P/N	Package	MOS		Pout	Wall Switch Dim		Dimming logic			
	BP5912A	SOP8	400V/0.5A	Transistor	<50W	Rear control		A->B->(A+B)/2			
	BP5912B	SOP8	400V/0.5A	Transistor	<50W	Rear control		A->B			
	BP5916	SOT33-6	500V JFET		-	Front control		A->B->A+B or A+B->A->B			
	BP5917	SOP8	500V JFET		-	Front control		A->B->C->A+B+C or A+B+C->A->B->C			
	BP5922M	SOP8	400V/1A	Transistor	<36W (Iout<280mA)	Rear control with memory		A->A+B->B			
BOOST CC/CV	P/N	Package	PF		Topology	Isolation		Pout	176-265Vac	MOS	Application
	BP2608	SOP8	0.92		BOOST	Non-isolated		<120W	External	CC/CV	
	BP2605	DIP8	0.92		BOOST	Non-isolated		<180W	External	CC/CV	
	BP2606C	SOP8	0.92		BOOST	Non-isolated		<30W	500V/3Ω	CC/CV	
	BP2606D	ESOP8	0.92		BOOST	Non-isolated		<50W	500V/2.3Ω	CC/CV	
	BP2607C	DIP8	0.92		BOOST	Non-isolated		<50W	500V/3Ω	CC/CV	
	BP2608A	SOP8	0.92		BOOST	Non-isolated		<120W	External	CV	
	BP6562	SOP8	0.92		BOOST	Non-isolated		-	External	CV	
	AC/DC Isolated/ 0.9PF	P/N	Package	PF	Winding	MOSFET		Isolation		Protection	Pout
RDS-ON		Vds	Non-isolated	Isolated	Vin=85Vac-265Vac	Vin=176Vac-265Vac					
BP3336B		SOP8	0.9	2 or 3	4.8Ω	650V	Y	Y	OTP/OVP	<10W	<16W
BP3336D		SOP8	0.9	2 or 3	2.15Ω	650V	Y	Y	OTP/OVP	<13W	<18W
BP3337D		DIP7	0.9	2 or 3	2Ω	650V	Y	Y	OTP/OVP	<18W	<26W
BP3337E		DIP7	0.9	2 or 3	1.1Ω	650V	Y	Y	OTP/OVP	<22W	<30W
BP3339		SOP8	0.92	2 or 3	External		Y	Y	OTP/OVP	-	-
BP3338		SOP8	0.92	2 or 3	External		Y	Y	Input OV&UV/OTP/OVP	-	-
0-10V Dimming	P/N	Package	PF	Topology	Power	85-265Vac	MOS	Application			
	BP3368	SOP16	0.9	BOOST+FLYBACK		<150W	External	Isolated	Analog/PWM		
	BP3368B	SOP16	0.9	BOOST+BUCK		<250W	External	Non-isolated	Analog/PWM		
	BP3378A	SOP8	0.9	FLYBACK/ BUCK-BOOST		<80W	External	Isolated	Analog/PWM		
	BP5001	SOP8	-	-	-	-	-	-	0-10V/RSET Dimming Connector		
Medium-Power with Flicker Free	P/N	Package	Flick-Free				MOS	Iout			
	BP5615F	TO220-3	PWM/		PWM/Analog Dimming Ripple Free Controller		Internal	1200mA			
	BP5617E	TO252	PWM/		PWM/Analog Dimming Ripple Free Controller		Internal	700mA			
	BP5637E	TO252-5	PWM/		PWM/Analog Dimming Ripple Free Controller		Internal	700mA			
	BP5636D	ESOP8	PWM/		PWM/Analog Dimming Ripple Free Controller		Internal	450mA			
	BP5609	SOT23-6	Ripple Free Controller				External	-			

	P/N	Package	PF	Winding	MOSFET		Topology	OTP	OVP	Pout	
					RDS-ON	Vds				Vin=120Vac	Vin=220Vac
TRIAC Dimming	BP3276A	SOP8	0.9	1	2.5Ω	300V	Boost	Y	Y	<17W	-
	BP3276C	SOP8	0.9	1	3Ω	500V	Boost	Y	Y	<15W	<22W
	BP3278	SOP8	0.9	1	External		Boost	Y	Y	<50W	<80W
	BP3286H	SOP8	0.9	1	4.7Ω	650V	Buckboost/Flyback	Y	Y	<10W	<12W
	BP3287H	SOP8	0.9	1	4.7Ω	650V	Buckboost/Flyback	Y	Y	<10W	<12W
	BP3286J	SOP8	0.9	1	2.2Ω	650V	Buckboost/Flyback	Y	Y	<18W	<24W
	BP3288	SOP8	0.9	1	External		Buckboost/Flyback	Y	Y	-	-
		P/N	Package	Application				Line Compensation	Thermal regulation		MOS BV
TRIAC Dimming Linear	BP5178GL	ESOP8	North America High Efficiency Single Segment Triac Dimming				Y	External setting		350V	
	BP5178FL	ESOP8	North America High Efficiency Single Segment Triac Dimming				Y	External setting		350V	
	BP5178FH	ESOP8	High Efficiency Single Segment Triac Dimming				Y	External setting		500V	
	BP5132HC	ESOP8	2 Strings-Line Compensation				N	TREG: 150°C		500V	
	BP5152HC	ESOP8	2 Strings-Line Compensation				Y	TREG: 150°C		500V	
	BP5153HJ	ESOP8	Three Segment Triac Dimming				Y	TREG: 140°C		500V	
	BP5111	SOT89-3	Triac Dimmable and CCT				N	TREG: 150°C		500V	
		P/N	Package	OVP	MOS	Flick-Free			Iout		
TRIAC Dimming with Flicker Free	BP5659BL	SOT33-3	Dynamic change	40V	Dimming Ripple Free Controler			90mA			
	BP5659B	SOT33-3	22V	40V	Dimming Ripple Free Controler			90mA			
	BP5658C	SOP8	22V	40V	Dimming Ripple Free Controler			150mA			
	BP5629C	SOT23-6	Adjustable	40V	Dimming Ripple Free Controler			70mA			
	BP5628C	SOP8	10V	40V	Dimming Ripple Free Controler			200mA			
	BP5628B	SOP8	30V	40V	Dimming Ripple Free Controler			200mA			
		P/N	Package	PF	Topology	Power	MOS	OVP	Dimming		
PWM Color Dimming	BP2886D	SOP8	0.5	BUCK	<24W	500V/4.8Ω	External	PWM			
	BP2886F	SOP8	0.5	BUCK	<35W	500V/3Ω	External	PWM			
	BP2887F	DIP7	0.5	BUCK	<40W	500V/3Ω	External	PWM			
	BP2306CJ	SOP8	0.9	BUCK	<10W	550V/5.2Ω	N	PWM/Analog			
	BP2306HJ	SOP8	0.9	BUCK	<18W	600V/2Ω	N	PWM/Analog			
	BP2308	SOP8	0.9	BUCK	<100W	External	External	PWM/Analog			
	BP3378A	SOP8	0.9	FLYBACK/BUCK-BOOST	<80W	External	External	PWM/Analog			
	BP3368	SOP16	0.9	Two-stageBOOST+FLYBACK	<150W	External	External	PWM/Analog			
	BP3368B	SOP16	0.9	Two-stage BOOST+BUCK	<250W	External	External	PWM/Analog			
	P/N	Package	MOS	Power	CCT		Status				
PWM Dimming	BP5926A	SOP8	100V / 0.6Ω	Saturation current <700mA	PWM	CCT	0-100%				
	BP5926D	SOP8	300V / 5Ω	Saturation current <180mA	PWM	CCT	0-100%				
	P/N	Package	MOS	Power	CCT		Status				
PWM RGB	BP1638CJ	ESOP-8	40V / 6Ω	Saturation current<200mA	Individual 3 channels PWM		0-100%				

Multiple Linear DOB	P/N	Package	Application		Line Compensation	Thermal regulation		MOS BV	
	BP5586	SOP16	Four Segments constant power controller		Y	TREG: 120°C		External	
	BP5589	SOP14	Universal Four Segments constant power controller		Y	TREG: 120°C		External	
	BP5228DL	ESOP8	Two Segments		Y	TREG: 140°C		500V/500V	
	BP5336H	ESOP8	Three Segments		Y	TREG: 140°C		700V/700V/700V	
	BP5336L	ESOP8	Three Segments		Y	TREG: 125°C		700V/700V/700V	
	BP5136H	ESOP8	Four Segments		Y	TREG: 140°C		700V/700V/500V/500V	
	BP5136HC	ESOP8	Four Segments		Y	TREG: 140°C		500V/500V/500V/500V	
	BP5158H	ESOP8	Five Segments		Y	TREG: 140°C		500V/500V/500V/500V	
	BP5158HD	ESOP8	Five Segments-PWM/Analog		Y	TREG: 140°C		500V/500V/500V/500V	
	BP5778EJ	ESOP8	PWM/Analog Two LED String		N	TREG: 150°C		500V/500V	
	BP5818DJ	ESOP8	Linear wall switch dimming /Color temperature change		N	TREG: 140°C		500V	
Single Segment Linear DOB	P/N	Package	Application		Compensation	Thermal regulation	Power	Iout max	MOS BV
	BP5128DH	ESOP8	Single Segment internal constant power compensation		Y	TREG: 130°C	10W	80mA	700V
	BP5126DH	ESOP8	Single Segment internal constant power compensation		Y	TREG: 130°C	10W	80mA	700V
	BP5128DK	ESOP8	Single Segment internal constant power compensation		Y	TREG: 150°C	10W	80mA	700V
	BP5122DH	TO252	Single Segment internal constant power compensation		Y	TREG: 130°C	12W	80mA	700V
	BP5131JA	SOT89-3	Single Segment constant current		N	TREG: 150°C	7W	60mA	500V
	BP5131HA	ESOP8	Single Segment constant current		N	TREG: 150°C	7W	60mA	500V
	BP5116DL	ESOP8	Single Segment constant current		N	TREG: 130°C	10W	80mA	500V
	BP5116DJ	ESOP8	Single Segment constant current		N	TREG: 150°C	10W	80mA	500V
	BP5131HC	ESOP8	Single Segment constant current		N	TREG: 150°C	10W	80mA	500V
	BP5131DC	TO252	Single Segment constant current		N	TREG: 150°C	12W	80mA	500V
	BP5118DH	ESOP8	Single Segment constant power		Y	TREG: 150°C	11W	100mA	500V
	BP5118FH	ESOP8	High PF High Efficiency Single Segment		Y	TREG: 150°C	15W	300mA	500V
	BP5711EJ	ESOP8	PWM/Analog Dimming Single Segment		Y	TREG: 150°C	11W	100mA	500V

	P/N	Package	PF	HV-Vcc	MOSFET		OTP	VCC	OVP	Vin=176Vac-265Vac	
					RDS-ON	Vds		Internal		Housing temperature	
										90°C	Pout max
	Iout max (mA)	Pout max (W)									
AC/DC Non-isolated/ 0.5PF/	BP2861SJ	SOP-7T	0.5	Y	16.5Ω	500V	140°C	Y	Y	120	11
	BP2861AJ	SOP-7T	0.5	Y	11Ω	500V	140°C	Y	Y	190	12
	BP2861BJ	SOP-7T	0.5	Y	8.5Ω	500V	140°C	Y	Y	260	14
	BP2861CJ	SOP-7T	0.5	Y	5.8Ω	500V	140°C	Y	Y	340	15
	BP2861DJ	SOP-7T	0.5	Y	4.8Ω	500V	140°C	Y	Y	380	17
	BP2861S	SOP-7T	0.5	Y	16.5Ω	500V	140°C	Y	-	120	11
	BP2861A	SOP-7T	0.5	Y	11Ω	500V	140°C	Y	-	190	12
	BP2861B	SOP-7T	0.5	Y	8.5Ω	500V	140°C	Y	-	260	14
	BP2861C	SOP-7T	0.5	Y	5.8Ω	500V	140°C	Y	-	340	15
	BP2861D	SOP-7T	0.5	Y	4.8Ω	500V	140°C	Y	-	380	17
	BP2861LK	SOP-7T	0.5	Y	28Ω	500V	120°C	Y	-	100	9
	BP2861SK	SOP-7T	0.5	Y	16.5Ω	500V	120°C	Y	-	120	11
	BP2861AK	SOP-7T	0.5	Y	11Ω	500V	120°C	Y	-	190	12
	BP2861BK	SOP-7T	0.5	Y	8.5Ω	500V	120°C	Y	-	260	14
	BP2861CK	SOP-7T	0.5	Y	5.8Ω	500V	120°C	Y	-	340	15
	BP2861DK	SOP-7T	0.5	Y	4.8Ω	500V	120°C	Y	-	380	17
	AC/DC 非隔离 Non-isolated/ 0.5PF	P/N	Package	PF	HV-Vcc	MOSFET		OTP	VCC	OVP	Vin=176Vac-265Vac
RDS-ON						Vds	Internal		Housing temperature		
									90°C		Pout max
Iout max (mA)		Pout max (W)									
BP2866AJ		SOP7	0.5	Y	11Ω	500V	140°C	Y	Y	190	13
BP2866BJ		SOP7	0.5	Y	8.5Ω	500V	140°C	Y	Y	260	15
BP2866CJ		SOP7	0.5	Y	5.8Ω	500V	140°C	Y	Y	340	17
BP2866DJ		SOP7	0.5	Y	4.8Ω	500V	140°C	Y	Y	380	19
BP2866FJ		SOP7	0.5	Y	3Ω	500V	140°C	Y	Y	450	29
BP2866GJ		SOP7	0.5	Y	2Ω	500V	140°C	Y	Y	500	35
BP2867CJ		DIP7	0.5	Y	5.8Ω	500V	140°C	Y	Y	340	18
BP2867DJ		DIP7	0.5	Y	4.8Ω	500V	140°C	Y	Y	380	25
BP2867EJ		DIP7	0.5	Y	4Ω	500V	140°C	Y	Y	420	30
BP2867FJ		DIP7	0.5	Y	3Ω	500V	140°C	Y	Y	450	37
BP2867GJ		DIP7	0.5	Y	2Ω	500V	140°C	Y	Y	500	44
BP2868DS		ESOP8	0.5	Y	4.8Ω	500V	140°C	Y	Y	380	25
BP2868FS		ESOP8	0.5	Y	3Ω	500V	140°C	Y	Y	450	37
BP2868DK		ESOP8	0.5	Y	4.8Ω	500V	120°C	Y	Y	380	25
BP2868FK		ESOP8	0.5	Y	3Ω	500V	120°C	Y	Y	450	37
BP2868DH	ESOP8	0.5	Y	4.8Ω	500V	100°C	Y	Y	380	25	
BP2868FH	ESOP8	0.5	Y	3Ω	500V	100°C	Y	Y	450	37	
BP2869AJ	SOT33-5	0.5	Y	External		140°C	Y	Y	-	-	

	P/N	Package	PF	No VCC	MOSFET		Target Market	OVP	THD	Subhar-monic	Iout (mA)	
				No COMP	RDS-ON	Vds					Vin=176Vac-265Vac	
											72V Vout	
AC/DC Non-isolated / 0.9PF	BP2329AJ	SOT23-6	0.9	-	External		Global	External	<15%	Y	-	
	BP2335JS	SOP7	0.9	-	5.5Ω	550V	India	External	<15%	Y	<180	
	BP2336JS	SOP7	0.9	-	3.4Ω	550V	India	External	<15%	Y	<230	
	BP2337JS	SOP7	0.9	-	4.5Ω	650V	India	External	<15%	Y	<230	
	BP2337DS	DIP7	0.9	-	4.5Ω	650V	India	External	<15%	Y	<230	
	BP2338JS	SOP7	0.9	-	1.8Ω	600V	India	External	<15%	Y	<250	
	BP2339JS	SOP8	0.9	-	External		India	External	<15%	Y	-	
	BP2335JF	SOP7	0.9	-	5.8Ω	500V	Global	External	<15%	Y	<180	
	BP2338JF	SOP7	0.9	-	1.8Ω	600V	Global	External	<15%	Y	<250	
	BP2339JF	SOP8	0.9	-	External		Global	External	<15%	Y	-	
	BP2365AS	SOT33-5	0.9	Y	13Ω	650V	India	Internal	<15%	Y	<100	
	BP2365BS	SOT33-5	0.9	Y	9Ω	650V	India	Internal	<15%	Y	<150	
	BP2366DS	SOP7	0.9	Y	4.5Ω	650V	India	Internal	<15%	Y	<220	
	BP2366ES	SOP7	0.9	Y	2.7Ω	600V	India	Internal	<15%	Y	<240	
	BP2366FS	SOP7	0.9	Y	2.2Ω	600V	India	Internal	<15%	Y	<250	
	BP2367DS	DIP7	0.9	Y	4.5Ω	650V	India	Internal	<15%	Y	<230	
	BP2367ES	DIP7	0.9	Y	2.7Ω	600V	India	Internal	<15%	Y	<260	
	BP2367FS	DIP7	0.9	Y	2.2Ω	600V	India	Internal	<15%	Y	<270	
	BP2365BJ	SOT33-5	0.7	Y	8Ω	500V	Brazil	External	-	N	<150	
	BP2365CJ	SOT33-5	0.7	Y	5.8Ω	500V	Brazil	External	-	N	<180	
	BP2366BJ	SOP7	0.7	Y	9Ω	500V	Brazil	External	-	N	<150	
	BP2366CJ	SOP7	0.7	Y	5Ω	500V	Brazil	External	-	N	<180	
	BP2366EJ	SOP7	0.7	Y	3Ω	500V	Brazil	External	-	N	<230	
	BP2366FJ	SOP7	0.7	Y	2.2Ω	600V	Brazil	External	-	N	<250	
	AC/DC Isolated/ 0.5PF	P/N	Package	PF	Winding	MOSFET		OTP	OVP	Pout		
					RDS-ON	Vds	Vin=85Vac-265Vac			Vin=176Vac-265Vac		
BP3166AJ		SOP7	0.5	2	25Ω	650V	Y	Y	3W	5W		
BP3166AS		SOP7	0.5	2	25Ω	650V	Y	Y(Internal)	3W	5W		
BP3166BJ		SOP7	0.5	2	14Ω	650V	Y	Y	5W	7W		
BP3166BS		SOP7	0.5	2	14Ω	650V	Y	Y(Internal)	5W	7W		
BP3166CJ		SOP7	0.5	2	9Ω	650V	Y	Y	7W	9W		
BP3166DJ		SOP7	0.5	2	4.7Ω	650V	Y	Y	9W	12W		
BP3166EJ		SOP7	0.5	2	3Ω	600V	Y	Y	12W	15W		
BP3167DJ		DIP7	0.5	2	4.7Ω	650V	Y	Y	12W	15W		
BP3167EJ		DIP7	0.5	2	3Ω	600V	Y	Y	18W	18W		
BP3167FJ		DIP7	0.5	2	2Ω	600V	Y	Y	24W	24W		
BP3169AJ	SOP7	0.5	2	External		Y	Y	50W	75W			