

Buck Converter Product Line

I. Specifications

Device	Max V _{OUT} (V)	Min V _{OUT} (V)	Max V _{IN} (V)	Min V _{IN} @ I _{OUT} =0.1A (V) ¹	Max I _{OUT} (mA)	PSRR @ 1kHz (dB)	V _{RMS} noise, 10-100kHz (μV)	TID (krad (si))
BK191D18V² 6mm QFN28	2	1.2	20	V _{OUT} +1.4 (L) V _{OUT} +2.8 (M)	900	75	12	200 (RHA)
BK291D18V 6mm QFN28	2	1.2	26	V _{OUT} +1.4 (L) V _{OUT} +2.8 (M)	1000	65	160	200
BK291D33L 7mm QFN32	4			V _{OUT} +1.4			245	
BK291D33V 7mm QFN32	4			V _{OUT} +2.8 (M) V _{OUT} +5.5 (H)			245	
BK291D50E 7mm QFN32	5			V _{OUT} +7.0			350	
BK301D18V 6mm QFN28	2	0	15	V _{OUT} +1.4 (L) V _{OUT} +2.8 (M)	500	>100	<1	TBD
BK301D33L³ 7mm QFN32	4			V _{OUT} +1.4				
BK301D33V³ 7mm QFN32	4			V _{OUT} +2.8 (M) V _{OUT} +5.5 (H)				
BK301D50H 7mm QFN32	6			V _{OUT} +4.1				
BK300D50E 7mm QFN32	5			V _{OUT} +7.0				

All the parts listed here are under development and device specifications provided here are subject to change.

¹ Minimum input voltage is provided in optocoupler enhanced mode. All devices can be operated as conventional low dropout linear regulators with lower V_{IN}.

² Uses RH1965 radiation hardness assured LDO.

³ Devices expected in late 2025.

Contact us at info@polarissemiconductor.com for datasheets and additional information.