

PRODUCT SELECTION GUIDE

NIKO-SEM

Surface-Mount And Through-Hole Power MOSFET

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			Ciss(Typ.) (pF)	Qg(Typ.) (nc)	Rθ _{JC} /W	VGS(th) Max (V)	I _D (A)	P _D (W)	
		VGS@ 2.5V	VGS@ 4.5V	VGS@ 10V							
TO-263 /220											
N-Channel											
P45N02LSG	25		30(@ 7V)	28	600	25	2.6	2.5	45	60	
P45N03LTG			30(@ 7V)	28	600	25	3	2.5	45	65	
P75N02LSG			8(@ 7V)	7	5000	140	2.3	3	75	65	
P75N02LTG			8(@ 7V)	7	5000	140	2.3	3	75	60	
P0903BSG			16	9.5	1200	25	2.5	3	50	50	
P0903BTG			16	9.5	1200	25	3	3	50	65	
P3055LSG			120(@ 5V)	90	450	15	2.6	2.5	12	43	
P3055LTG			120(@ 5V)	90	450	15	2.6	2.5	12	43	
P50N03LSG		27		18	12	1200	25	2.5	3	50	50
P5506BSG		60		75	55	650	12.5	2.6	2.5	12	37
P0808ATG	75			8	4645	195	0.65	4	80	192	
P1308ATG				13	3820	160	0.65	4	80	192	
P1510ATG	100			15	3850	120	0.97	4	80	128	
P2610ATG				26	2100	75	0.97	4	50	128	
P2615ATG	150			26	3200	80	0.97	4	50	128	
P-Channel											
P9006ESG	-60		135	90	760	15	2.6	-3	-18	48	

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		VGS@ 2.5V	VGS@ 4.5V	VGS@ 10V						
TO-252/251										
N-Channel										
P5002CDG	20	85	50(@ 5V)		195	7.5	4.8	1	20	26
P1402CDG		26	14(@ 5V)		500	17	2.6	1.25	45	48
P45N02LDG	25		30(@ 7V)	28	600	25	3	2.5	45	55
P60N03LDG			17.8(@ 7V)	13.8	600	30	3	2.5	60	60
P60N03LRG			17.8(@ 7V)	13.8	600	30	3	2.5	60	60
P70N02LDG			15	8.5	1200	25	2.5	3	65	50
P70N02LR			15	8.5	1200	25	2.5	3	60	60
P75N02LDG			10	7	2700	19	2.3	3	75	60
P75N02LR			10	7	5000	140	2.3	3	75	60
P75N02LI			10	7	5000	140	2.3	3	75	60
P0403BDG			6	4	4018	42	1.3	3	75	96
P0603BDG			9.5(@ 5V)	6.5	2679	28	2.3	3	75	60
P0903BDG			16	9.5	1200	25	2.5	3	50	50
P0903BI			16	9.5	1200	25	2.5	3	50	50
P1703BDG			25(@ 7V)	17	600	25	3	2.5	46	55
P2003BDG			31	20	530	8.4	2.5	2.5	35	50
P2703BDG			41	27	710	14.4	2.5	3	10	50
P3055LDG			100(@ 5V)	50	450	15	3	2.5	12	48
P3057LDG			120(@ 5V)	90	450	15	3	2.5	12	48
P50N03LDG		27		18	12	1200	25	2.5	3	50
P2503BDG	30		37	25	790	16	3	2.5	12	32
P2504BDG	40		45	25	760	16	3	3	12	41
P2804BDG			42	28	790	16	3	2.5	10	32
P5506BDG	60		75	55	650	12.5	3	2.5	10	32

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P-Channel										
PA102FDG	-20	180	115		430	7.6	5	-1.2	-10	25
P06P03LDG	-30		75	45	530	10	3	-3	-12	48
P3003EDG			52	30	970	28	2.5	-3	-18	50
P2504EDG	-40		40(@ 7V)	25.8	1570	29	3	-3	-18	42
P4404EDG			68	44	660	14	4.1	-3	-10	30
P5504EDG			94	55	690	14	3	-2.5	-8	28
P9006EDG	-60		135	90	760	15	3	-3	-7	28

Surface-Mount

Complementary N-P Channel

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			VGS(th) Max (V)	I _D (A)	P _D (W)	Configuration
		VGS@2.5V	VGS@4.5V	VGS@10V				
TO-252-5								
P2103ND5G	30		32	21	2.5	8.5	3	N-Ch
	-30		60	35	-2.5	-7		P-Ch
P2503ND5G	30		37	25	2.5	8	3	N-Ch
	-30		80	45	-2.5	-6		P-Ch
P2804ND5G	40		49(@ 5V)	28	3.0	7	3	N-Ch
	-40		85(@ 5V)	48	-3.0	-5.5		P-Ch
P3004ND5G	40		50(@ 5V)	30	3.0	12	3	N-Ch
	-40		99(@ 5V)	55	-3.0	-8.8		P-Ch
P4804QD5G	40		49(@ 5V)	28	3.0	7	3	N-Ch
	-40		85(@ 5V)	48	-3.0	-5.5		P-Ch
P5806ND5G	60		85	58	2.5	5	3	N-Ch
	-60		135	90	-2.5	-4		P-Ch

Surface-Mount

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			Ciss(Typ.e) (pF)	Qg(Typ.) (nc)	Rθ _{JA} /W	VGS(th) Max (V)	I _D (A)	P _D (W)
		VGS@ 2.5V	VGS@ 4.5V	VGS@ 10V						
SOT-223										
N-Channel										
P3055LLG	25		120(@ 5V)	90	450	15	42	2.5	6	3
P1503BLG			32(@ 5V)	21	600	30	83	3	8	1.5

Surface-Mount

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			Ciss(Typ.) (pF)	Qg(Typ.) (nc)	Rθ _{JA} /W	VGS(th) Max (V)	I _D (A)	P _D (W)
		VGS@ 2.5V	VGS@ 4.5V	VGS@ 10V						
SOT-89										
N-Channel										
P3057LCG	25		115	85	450	15	160	2.5	6	3
P-Channel										
P06P03LCG	-30		75	45	530	10	160	-3	-4	0.78

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Surface-Mount

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			Ciss(Typ.) (pF)	Qg(Typ.) (nc)	Rθ _{JA} /W	VGS(th) Max (V)	I _D (A)	P _D (W)	
		VGS@ 2.5V	VGS@ 4.5V	VGS@ 10V							
SOT-23/ 323											
N-Channel											
P3202CMG	20	50	32		740	8	100	1.2	5	1.25	
P5002CMG		100	50.8		450	12	230	1.2	3	0.6	
P7502CMG		105	75		450	15	230	1.2	3	0.6	
P6002CYG	20	85	60		418	5.4	425	1.2	1.8	0.35	
P01N02LMAG	25		500(@ 7V)	400	120	11	230	2.5	1.2	0.6	
P01N02LMBG				250(@ 7V)	220	120	11	230	2.5	1.2	0.6
P8503BMG	30		115	85	450	15	230	2.5	3	0.6	
P3203CMG		52	32	28	740	8	100	1.2	6	1.25	
P8003CYG		125	80	65	380	4.5	425	1.2	1.8	0.35	
P7503BYG				115	75	390	5	425	2.2	1.7	0.35
P-Channel											
PA002FMG	-20	140	100		540	6.2	166	-1.2	-3	1.25	
PA102FMG		215	118	85	430	7.6	166	-1.2	-3	1.25	
PA502FMG		250	150		410	5.8	166	-1.2	-3	1.25	
P6402FMG		79	64		950	9.4	100	-1.2	-4	1.25	
PA102FYG		215	115		476	5.63	425	-1.2	-1.4	0.35	
P5103EMG	-30		85	51	700	12.5	90	-3.0	-4.5	1.25	
P6403FMG		80	64		950	9.4	100	-1.2	-4	1.25	
PA503EMG				250	150	410	5.8	166	-2.5	-2	1.25
PA503EYG				250	150	410	5.8	425	-2.5	-1.4	0.35

Surface-Mount

Complementary N-P Channel

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			VGS(th) Max (V)	I _D (A)	P _D (W)	Configuration
		VGS@2.5V	VGS@4.5V	VGS@10V				
TSOPJW-8								
P6503NJG	30		120	65	2.5	4	2	N-Ch
	-30		250	150	-2.5	-3		P-Ch

Surface-Mount

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			Ciss(Typ.) (pF)	Qg(Typ.) (nc)	Rθ _{JA} /W	VGS(th) Max (V)	I _D (A)	P _D (W)
		VGS@ 2.5V	VGS@ 4.5V	VGS@ 10V						
TSOP-6										
N-Channel										
P2402CAG	20	35	24		1125	10.5	78	1.2	6.5	1.6
P2703BAG	30		40	27	680	10	78	3	7	1.6
P-Channel										
P4402FAG	-20	70	44		1100	12.5	62.5	-1.2	-5	2
PA102FAG	-30	215	118	85	430	7.6	166	-1.2	-3	1.25
P5103EAG				85	51	700	12.5	62.5	-3	-5

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Surface-Mount

Complementary N-P Channel

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			VGS(th) Max (V)	I _D (A)	P _D (W)	Configuration
		VGS@2.5V	VGS@4.5V	VGS@10V				
TSOP-6								
P6002OAG	20 -20	85 180	60 115		1.2 -1.2	3.6 -3.1	1.15	N-Ch P-Ch
P5803NAG	30 -30		88 185	58 115	2.5 -2.5	3.5 -2.3	1.15	N-Ch P-Ch
P6803NAG	30 -30		98 245	68 145	2.5 -2.5	3.5 -2.3	1.15	N-Ch P-Ch

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Complementary N-P Channel

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			VGS(th) Max (V)	I _D (A)	P _D (W)	Configuration
		VGS@2.5V	VGS@4.5V	VGS@10V				
SOP-8/DIP-8								
P2103NPG	30 -30		32 60	21 35	2.5 -2.5	7 -6	2.5	N-Ch P-Ch
P2103NVG	30 -30		32 60	21 35	2.5 -2.5	7 -6	2	N-Ch P-Ch
P2503NPG	30 -30		37 80	25 45	2.5 -2.5	7 -5	2.5	N-Ch P-Ch
P2503NVG	30 -30		37 80	25 45	2.5 -2.5	7 -5	2	N-Ch P-Ch
P2803NVG	30 -30		40 56	27.5 34	2.5 -2.5	7 -6	2	N-Ch P-Ch
P3503QVG	30 -30		37 60	25 35	2.5 -2.5	7 -6	2	N-Ch P-Ch
P4532VG	30 -30		95 80	60 45	2.5 -2.5	4 -5	2	N-Ch P-Ch
P5003QVG	30 -30		40 80	27.5 45	2.5 -2.5	7 -5	2	N-Ch P-Ch
P5503NVG	30 -30		95 80	55 45	2.5 -2.5	5 -5	2	N-Ch P-Ch
P2804NPG	40 -40		42 85	28 55	2.5 -2.5	7 -6	2.5	N-Ch P-Ch
P2804NVG	40 -40		42 105	28 65	2.5 -2.5	7 -5	2	N-Ch P-Ch
P5504QVG	40 -40		60 90	40 55	3.0 -3.0	5.5 -4.5	2	N-Ch P-Ch
P5806NVG	60 -60		85 135	58 90	2.5 -2.5	4.5 -3.5	2	N-Ch P-Ch

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Surface-Mount

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			VGS(th) Max (V)	I _D (A)	P _D (W)	Configuration
		VGS@2.5V	VGS@4.5V	VGS@10V				
SOP-8								
N-Channel								
P2002IVG	20	35	21		1.2	7	2	Dual
P0603BVG	30		9	6	3	17	2.5	Single
P0803BVG			12	8	3	15	2.5	Single
P1103BVG			16.5	11	2.5	11	2.5	Single
P1303BVG			20	12.5	2.5	10	2.5	Single
P1403BVG			22	14	3	12	2.5	Single
P1503BVG			24	15	3	11	2.5	Single
P1803BVG			30	18	2.5	8	2.5	Single
P2003BVG			32	20	2.5	8	2.5	Single
P07D03LVG			30	23	3	7	2	Dual
P2103HVG			35	21	3	7	2	Dual
P2503HVG			37	25	2.5	7	2	Dual
P2803HVG			40	27.5	2.5	7	2	Dual
P6803HVG			98 (@ 5V)	68	3	4.5	2	Dual
P2804BVG		40		42	28	2.5	7.5	2.5
P2804HVG			42	28	3	7	2	Dual
PA606HVG	55		210	160	3	3	2	Dual
P5506BVG	60		75	55	2.5	5.5	2.5	Single
P5506HVG			75	55	2.5	4.5	2	Dual
P-Channel								
P06B03LVG	-30		80	50	-3	-6	2.5	Dual
P06P03LVG			75	45	-3	-6	2.5	Single
P0703EVG			13	7.5	-3	-17	2.5	Single
P1003EVG			16	10.5	-3	-13	2.5	Single
P1203EVG			19	12	-3	-12	2.5	Single
P1403EVG			22	14	-3	-12	2.5	Single
P2003EVG			35	20	-3	-9	2.5	Single
P3203EVG			55	32	-2.5	-8	2.5	Single
P3503EVG			60	35	-2.5	-8	2.5	Single
P5504EVG	-40		94	55	-2.5	-5.5	2.5	Single

Surface-Mount

Complementary N-P Channel

Part Number	BV _{DSS} (V)	R _{DS(ON)} Max (mΩ)			VGS(th) Max (V)	I _D (A)	P _D (W)	Configuration
		VGS@2.5V	VGS@4.5V	VGS@10V				
TSSOP-8								
N-Channel								
P2502IZG	20	40	25		1.2	6	1.5	Dual