





Broad small-signal MOSFET portfolio to suit a wide range of applications

Our advanced MOSFET solutions deliver the flexibility and performance that today's market demands. Choose from a wide range of general-purpose MOSFET solutions, available in a variety of package options, from the larger SOT223 to the smallest MOSFET in an SOT883 package- the ultimate in miniaturization.





Single N-channel

Types in red are under development

Package name	Package outline	V _{DS} max (V)	V _{GS} max (V)	Typenumber	ESD protection	I _b max (A)	R _{Dson} max (mΩ)					Q _{GD} typ (nC)	Q _{G(boot)} typ (nC)	V _{GS(th)} typ (V)	Automotive qualified
							@ V _{GS} = 10 V	@ V _{GS} = 5 V	@ V _{GS} = 4.5 V	@ V _{GS} = 2.5 V	@ V _{GS} = 1.8 V				
SOT883 1.0 x 0.6 x 0.5 mm		20	8	PMZ250UN		2.28			300	400	600	0.18	0.89	0.7	N
			12	PMZ270XN		2.15			340			0.18	0.72	1	N
		30	8	PMZ390UN		1.78			460	560	730	0.2	0.89	0.7	N
				PMZ1000UN		0.48			1000	1100	1400	0.2	0.89	0.7	N
		60	12	PMZ350XN		1.87			420	650		0.18	0.65	1	N
			20	PMZ760SN		1.22		900	1600			0.22	1.05	2	N
SOT416 1.6 x 0.8 x 0.77 mm		20	8	PMR280UN		0.98			340	430	660	0.18	0.89	0.7	N
			12	PMR290XN		0.97			350	550		0.18	0.72	1	N
		30	8	PMR400UN		0.8			480	580	830	0.2	0.89	0.7	N
				NX3008NBKT	yes	0.4			1500	2100	2800	0.08	0.52	0.9	Y
		60	12	PMR370XN		0.84			440	650		0.18	0.65	1	N
			20	PMR780SN		0.55		920	1400			0.22	1.05	2	N
SOT323 1.7 x 1.25 x 0.95 mm		20	8	PMF280UN		1.02			340	430	660	0.18	0.89	0.7	N
			12	PMF290XN		1			350	550		0.18	0.72	1	N
		30	8	PMF400UN		0.83			480	580	830	0.2	0.89	0.7	N
				NX3008NBKW	yes	0.38			1500	2100	2800	0.08	0.52	0.9	Y
		55	8	PMF370XN		0.87			440	650			0.65	1	N
			15	BSH121		0.3			4000	5000		0.5	1	1	N
60	20	PMF3800SN	yes	0.26	4500	5300		0.07	0.85	2	N				
		PMF780SN		0.57	920	1400		0.22	1.05	2	N				
		2N7002BKW	yes	0.31	1600	2000		0.1	0.5	1.6	Y				
		2N7002PW		0.31	1600	2000		0.2	0.6	1.75	Y				
		BSS138PW		0.32	1600	2000		0.24	0.72	1.2	Y				
SOT363 2.0 x 1.25 x 0.95 mm		20	8	PMGD280UN		0.87			340	430	660	0.18	0.89	0.7	N
		30	12	PMG370XN		0.96			440	650		0.18	0.65	1	N









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Package name	Package outline	V _{DS} max (V)	V _{GS} max (V)	Typenumber	ESD protection	I _b max (A)	R _{DSon} max (mΩ)					Q _{GD} typ (nC)	Q _{G(lead)} typ (nC)	V _{GSsh} typ (V)	Automotive qualified	
							@ V _{GS} = 10 V	@ V _{GS} = 5 V	@ V _{GS} = 4.5 V	@ V _{GS} = 2.5 V	@ V _{GS} = 1.8 V					
SOT23 2.9 x 1.3 x 1.0 mm		20	8	PMV16UN		5.8			18	23	40	1.9	7.4	0.7	N	
				PMV28UN		3.3			32	40	65	1.7	5.8	0.7	N	
				PMV30UN		5.7			36	43	63	1.8	7.4	0.7	N	
				PMV56XN		3.76			85	115		1.6	5.4	0.85	N	
				SI2302DS		2.5			85	115		1.6	5.4	0.85	N	
				BSH105		1.05			200	250		1.4	3.9	0.57	N	
				PMV30XN		3.2			35	60		1.5	4.9	1	N	
				PMV31XN		5.9			37	53		1.7	5.8	1	N	
		30	20	PMV40UN		4.9			47	53	73	2.2	9.3	0.7	N	
				BSH103				400	500		0.67	2.1		N		
				NX3008NBK	yes	0.38		1500	2100	2800	0.08	0.52	0.9	Y		
				PMV20XN		4.8		25	35		1.1	6.4	1	N		
				PMV22EN		5.2	22	29			1.3	8.6	1.5	N		
				PMV37EN		3.1	36	47			1	6.5	1.5	N		
				PMV45EN		5.4	42	54			1.9	9.4	1.5	N		
				PMV60EN		4.7	55	72			1.9	9.4	1.5	N		
				PMV117EN		2.5	117	190			1.35	4.6	2	N		
				SI2304DS		1.7	117	190			1.35	4.6	2	N		
		50	20	BSH108		1.9	120	140			1.3	6.4	1.5	N		
				BSN20		0.173	15000	20000					1	N		
				BSH111		0.335			4000	5000		0.5	1	1	N	
				60	20	2N7002K	yes	0.34	3900		5300				2	N
						2N7002CK	yes	0.3	1600		3000		0.23	1.09	1.75	Y
						2N7002BK	yes	0.35	1600	2000			0.1	0.5	1.6	Y
						2N7002P		0.36	1600	2000			0.2	0.6	1.75	Y
						BSS138P		0.36	1600	2000			0.24	0.72	1.2	Y
						PMBF170		0.3	5000		5300					N
30	20			2N7002E		0.385	3000		4000			0.69	2	N		
		2N7002F		0.475	2000		4000			0.69	2	N				
		2N7002		0.3	5000						2	N				
		BSH114		0.85	500					2.1	4.6	3	N			
100	20	BSS123		0.15	6000						2	N				
		BST82		0.19		10000						2	N			
		PMV213SN		1.9	250					2.5	7	3	N			
		PMN28UN		5.7			34	40		2.1	10.1	0.7	N			
SOT457 2.9 x 1.5 x 1.0 mm		12	8	PMN23UN		6.3			28	34.4		2.1	10.6	0.7	N	
				PMN27UN		5.7			34	40		2.1	10.6	0.7	N	
				PMN34LN		5.7	34		40			2.3	13.1	1.5	N	
				PMN55LN		4.1	65		82			2.3	13.1	1.5	N	
		30	20	PMN25UN		6			27	35	58	1.6	6.4	0.7	N	
				PMN34UN		4.9			46	54		2.1	9.9	0.7	N	
				PMN40LN		5.4	38		45			2.4	13.8	1.5	N	
				PMN20EN		6.7	20		25			2.1	12.4	1.5	N	
				PMN35EN		6	31		43			1	7	1.5	N	
				PMN38EN		5.4	38		46			2.35	6.1	1.5	N	
				PMN45EN		5.2	40		50			2.35	6.1	1.5	N	
				PMN49EN		4.6	47		60			1.6	8.8	1.5	N	
SOT89 4.5 x 2.5 x 1.5 mm		200	20	BSS87		0.4	3000								N	
				BSP030		10	30	50				7.4	24	2	N	
SOT223 6.5 x 3.5 x 1.65 mm		30	20	BSP100		6	100	200				0.7	6	2	N	
				PHT8N06LT	yes	7.5		80			5	11.2	1.5	N		
		55	13	PHT6N06LT	yes	5.5		150			2.5	4.5	1.5	N		
				PHT6N06T	yes	5.5	150				2.6		3	N		
				PHT4NQ10LT		3.5		250			3.6		1.5	N		
				PHT6NQ10T		6.5	90				8.2	21	3	N		
		100	20	PHT4NQ10T		3.5	250				3.3	7.4	3	N		
				BSP110		0.52		10000					2	N		
				BSP122		0.55	2500							N		
				BSP89		0.375	5000		7500					N		
				BSP126		0.375	5000			7500				N		
				BSP130		0.35	6000			10000				N		



Single P-channel

Types in red are under development

Package name	Package outline	V _{DS} max (V)	V _{GS} max (V)	Typenumber	ESD protection	I _b max (A)	R _{Dson} max (mΩ)					Q _{GD} typ (nC)	Q _{G(thet)} typ (nC)	V _{GS(th)} typ (V)	Automotive qualified		
							@ V _{GS} = 10 V	@ V _{GS} = 5 V	@ V _{GS} = 4.5 V	@ V _{GS} = 2.5 V	@ V _{GS} = 1.8 V						
SOT883 1.0 x 0.6 x 0.5 mm		50	20	BSS84AKM	yes	0.23	7500	8500				0.09	0.26	1.6	Y		
SOT416 1.6 x 0.8 x 0.77 mm		30	8	NX3008PBKT	yes	0.23			4100	6500		0.09	0.55	0.9	Y		
		50	20	BSS84AKT	yes	0.15	7500	8500				0.09	0.26	1.6	Y		
SOT323 1.7 x 1.25 x 0.95 mm		20	12	PMF170XP		1			200	300		0.53	2.6	0.9	N		
		30	8	NX3008PBKW	yes	0.23			4100	6500		0.09	0.55	0.9	Y		
		50	20	BSS84AKW	yes	0.15	7500	8500				0.09	0.26	1.6	Y		
SOT363 2.0 x 1.25 x 0.95 mm		20	12	PMG85XP		2			115	160		1	4.8	0.9	N		
SOT23 2.9 x 1.3 x 1.0 mm		12	8	BSH205		0.75				500		1	3.8	0.68	N		
				PMV32UP		4			36	46		2.2	15.5	0.7	N		
				NX2301P		2		120	190		0.9	4.5	0.75	0.7	N		
		20	12	PMV160UP				200	320								N
				PMV48XP		3.5			55	81		1.8	8.5	1	N		
				PMV65XP		3.9			76	112		0.65	7.6	0.75	N		
		30	8	BSH203		0.47				900	1100		0.25	2.2	0.68	N	
				NX3008PBK	yes	0.23			4100	6500		0.09	0.55	0.9	Y		
				BSH202		0.52	900					0.5	2.9	1.9	N		
		50	20	BSS84AK	yes	0.15	7500	8500					0.09	0.26	1.6	Y	
				BSS84		0.13	10000									N	
BSH201				0.3	2500					0.4	3	1.9	N				
SOT457 2.9 x 1.5 x 1.0 mm		12	8	BSH207		1.52				150		2	8.8	0.6	N		
				PMN27UP		5.7			32	41	66	2.8	21	0.7	N		
		20	8	PMN34UP		5				40	48	66	2	15.5	0.7	N	
				PMN48XP		4.1			55	82		1.7	8.7	1	N		
SOT89 4.5 x 2.5 x 1.5 mm		240	20	BSS192		0.2	12000								N		
SOT223 6.5 x 3.5 x 1.65 mm		30	20	BSP250		3	250		400			3	10		N		
		200	20	BSP220		0.225	12000								N		
		250	20	BSP225		0.225	15000								N		
		300	20	BSP230		0.21	17000								N		




Dual N-channel

Types in red are under development

Package name	Package outline	V _{DS} max (V)	V _{GS} max (V)	Typenumber	ESD protection	I _b max (A)	R _{Dson} max (mΩ)					Q _{GD} typ (nC)	Q _{G(thet)} typ (nC)	V _{GS(th)} typ (V)	Automotive qualified
							@ V _{GS} = 10 V	@ V _{GS} = 5 V	@ V _{GS} = 4.5 V	@ V _{GS} = 2.5 V	@ V _{GS} = 1.8 V				
SOT363 2.0 x 1.25 x 0.95 mm		20	12	PMGD290XN		0.86			350	550		0.18	0.72	1	N
				PMGD400UN		0.71		480	580		0.2	0.89	0.7	N	
		30	8	NX3008NBKS	yes	0.38		1500	2100	2800		0.08	0.52	0.9	Y
				PMGD370XN		0.74		440	650		0.18	0.65	1	N	
				PMGD8000LN		0.125			13000		0.12	0.35	1.2	N	
		60	20	PMGD780SN		0.49	920		1400		0.22	1.05	2	N	
				2N7002BKS	yes	0.3	1600	2000			0.1	0.5	1.6	Y	
				2N7002PS		0.32	1600	2000			0.2	0.6	1.75	Y	
BSS138PS				0.32	1600	2000			0.24	0.72	1.2	Y			
SOT666 1.6 x 1.2 x 0.55 mm		30	8	NX3008NBKV	yes	0.38			1500	2100	2800	0.08	0.52	0.9	Y
		60	20	2N7002BKV	yes	0.34	1600	2000				0.1	0.5	1.6	Y
				2N7002PV		0.35	1600	2000				0.2	0.6	1.75	Y



Dual P-channel

Types in red are under development


Package name	Package outline	V_{DS} max (V)	V_{GS} max (V)	Typenumber	ESD protection	I_b max (A)	R_{Dson} max (m Ω)					Q_{GD} typ (nC)	$Q_{G(ief)}$ typ (nC)	V_{GSth} typ (V)	Automotive qualified
							@ $V_{GS} = 10$ V	@ $V_{GS} = 5$ V	@ $V_{GS} = 4.5$ V	@ $V_{GS} = 2.5$ V	@ $V_{GS} = 1.8$ V				
SOT1118 2.0 x 2.0 x 0.65 mm		20	8	PMDFPB65UP	yes	3.5			70	90	165	1	4.5	0.7	N
SOT363 2.0 x 1.25 x 0.95 mm		30	8	NX3008PBKS	yes	0.23			4100	6500		0.09	0.55	0.9	Y
		50	20	BSS84AKS	yes	0.16	7500	8500				0.09	0.26	1.6	Y
SOT666 1.6 x 1.2 x 0.55 mm		30	8	NX3008PBKV	yes	0.23			4100	6500		0.09	0.55	0.9	Y
		50	20	BSS84AKV	yes	0.17	7500	8500				0.09	0.26	1.6	Y

Complementary

Types in red are under development

Package name	Package outline	V_{DS} max (V)	V_{GS} max (V)	Typenumber	Polarity	ESD protection	I_b max (A)	R_{Dson} max (m Ω)				Q_{GD} typ (nC)	$Q_{G(ief)}$ typ (nC)	V_{GSth} typ (V)	Automotive qualified
								@ $V_{GS} = 10$ V	@ $V_{GS} = 5$ V	@ $V_{GS} = 4.5$ V	@ $V_{GS} = 2.5$ V				
SOT363 2.0 x 1.25 x 0.95 mm		30	8	NX3008CBKS	N	yes	0.38			1500	2100	0.08	0.52	0.9	Y
					P	yes	0.23			4100	6500	0.09	0.55	0.9	Y
SOT666 1.6 x 1.2 x 0.55 mm		30	8	NX3008CBKV	N	yes	0.38			1500	2100	0.08	0.52	0.9	Y
					P	yes	0.23			4100	6500	0.09	0.55	0.9	Y
		60	20	NX1029X	N	yes	0.41	1600	2000			0.1	0.5	1.6	Y
					P	yes	0.19	7500	8500			0.09	0.26	1.6	Y

P-channel MOSFET-Schottky combination

Package name	Package outline	V_{DS} max (V)	V_{GS} max (V)	Typenumber	ESD protection	I_b max (A)	R_{Dson} max (m Ω)			V_F (mV) @ 1 A	I_R [μ A] @ $V_R = 20$ V	Automotive qualified
							@ $V_{GS} = 4.5$ V	@ $V_{GS} = 2.5$ V	@ $V_{GS} = 1.8$ V			
SOT1118 2.0 x 2.0 x 0.65 mm		20	8	PMDFPB6532UP	yes	3.5	70	90	150	365	700	N
				PMDFPB6545UP	yes	3.5	70	90	150	520	25	N