



Small Signal and Small Power MOSFETs

Selection guide

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	Voltage	SOT-223	TSOP-6	SOT-89	SC59	SOT-23	SOT-323	SOT-363	PQFN 2 x 2	
P-Channel MOSFETs	-250	BSP317P 4 Ω, -0.43 A, LL								
		BSP92P 12 Ω, -0.26 A, LL		BSS192P 12 Ω, -0.19 A, LL	BSR92P 11 Ω, -0.14 A, LL					
	-100	BSP321P 900 mΩ, -0.98 A, NL								
		BSP322P 800 mΩ, -1.0 A, LL								
		BSP316P 1.8 Ω, -0.68 A, LL				BSR316P 1.8 Ω, -0.36 A, LL				
	-60	BSP612P 120 mΩ, 3 A, LL					BSS83P 2 Ω, -0.33 A, LL			
		BSP613P 130 mΩ, 2.9 A, NL					BSS84P 8 Ω, -0.17 A, LL	BSS84PW 8 Ω, -0.15 A, LL		
		BSP170P 300 mΩ, -1.9 A, NL								
		BSP171P 300 mΩ, -1.9 A, LL								
		BSP315P 800 mΩ, -1.17 A, LL				BSR315P 800 mΩ, -0.62 A, LL				
-30			BSL303SPE 33 mΩ, -6.3 A, LL						IRFHS9301 ⁽²⁾ 37.0 mΩ, -6.0 A, LL	
			IRFHS9342TRPBF ⁽²⁾ 40 mΩ, -5.8 A, LL						IRFHS9351 ⁽²⁾ 170.0 mΩ, -2.3 A, LL	
			BSL307SP 43 mΩ, -5.5 A, LL							
			BSL305SPE 45 mΩ, -5.3 A, LL				BSS308PE 80 mΩ, -2.1 A, LL, ESD			
			BSL308PE 80 mΩ, -2.1 A, LL, dual, ESD				BSS314PE 140 mΩ, -1.5 A, LL, ESD			
			BSL314PE 140 mΩ, -1.5 A, LL, dual, ESD				BSS315P 150 mΩ, -1.5 A, LL	BSD314SPE 140 mΩ, -1.5 A, LL, ESD		
-20			BSL207SP 41 mΩ, -6 A, SLL			IRLML2244 ⁽¹⁾⁽²⁾ 54 mΩ, -4.3 A, LL	BSS209PW 550 mΩ, -0.58 A, SLL	BSV236SP 175 mΩ, -1.5 A, SLL	IRLHS2242 ⁽¹⁾⁽²⁾ 31.0 mΩ, -7.2 A, SLL	
			BSL211SP 67 mΩ, -4.7 A, SLL			IRLML2246 ⁽¹⁾⁽²⁾ 135 mΩ, 2.6 A, LL	BSS223PW 1.2 Ω, -0.39 A, SLL	BSD223P 1.2 Ω, -0.39 A, SLL, dual		
Complementary	-20/20		BSL215C N: 140 mΩ, 1.5 A, SLL P: 150 mΩ, -1.5 A, SLL					BSD235C N: 350 mΩ, 0.95 A, SLL P: 1.2 Ω, -0.53 A, SLL		
	-30/30		BSL308C N: 57 mΩ, 2.3 A, LL P: 80 mΩ, -2.0 A, LL							
			BSL316C N: 160 mΩ, 1.4 A, LL P: 150 mΩ, -1.5 A, LL							
N-Channel MOSFETs	20		BSL802SN 22 mΩ, 7.5 A, ULL		BSR802N 23 mΩ, 3.7 A, ULL	IRLML6244 ⁽¹⁾⁽²⁾ 21.0 mΩ, 6.3 A, LL			IRLHS6242 ⁽¹⁾⁽²⁾ 11.7 mΩ, 10.0 A, SLL	
			BSL202SN 22 mΩ, 7.5 A, SLL		BSR202N 21 mΩ, 3.8 A, SLL	IRLML6246 ⁽¹⁾⁽²⁾ 46.0 mΩ, 4.1 A, LL			IRLHS6276 ⁽¹⁾⁽²⁾ 45.0 mΩ, 4.5 A, SLL	
			BSL205N 50 mΩ, 2.5 A, SLL, dual			BSS205N 50 mΩ, 2.5 A, SLL				
			BSL806N 57 mΩ, 2.3 A, ULL, dual			BSS806NE 57 mΩ, 2.3 A, ULL, ESD			BSD214SN 140 mΩ, 1.5 A, SLL	
			BSL207N 70 mΩ, 2.1 A, SLL, dual			BSS806N 57 mΩ, 2.3 A, ULL	BSS214NW 140 mΩ, 1.5 A, SLL		BSD8165N 160 mΩ, 1.4 A, ULL	
			BSL214N 140 mΩ, 1.5 A, SLL, dual			BSS214N 140 mΩ, 1.5 A, SLL	BSS816NW 160 mΩ, 1.4 A, ULL		BSD235N 350 mΩ, 0.95 A, SLL, dual	
	25						IRFML8244 ⁽²⁾ 24 mΩ, 5.8 A, NL		BSD840N 400 mΩ, 0.88 A, ULL, dual	

	Voltage	SOT-223	TSOP-6	SOT-89	SC59	SOT-23	SOT-323	SOT-363	PQFN 2 x 2	
N-Channel MOSFETs	30		IRLTS6342 ^{1) 2)} 17.5 mΩ, 8.3 A, LL						IRLHS6342 ^{1) 2)} 15.5 mΩ, 8.7 A, SLL	
			IRFTS8342 ²⁾ 19 mΩ, 8.2 A, NL						IRLHS6376 ^{1) 2)} 63.0 mΩ, 3.6 A, SLL	
			BSL302SN 25 mΩ, 7.1 A, LL		BSR302N 23 mΩ, 3.7 A, LL		BSS306N 57 mΩ, 2.3 A, LL			
			BSL306N 57 mΩ, 2.3 A, LL, dual				IRLML6346 ^{1) 2)} 63 mΩ, 3.4 A, LL			
							IRLML2030 ²⁾ 100 mΩ, 1.4 A, LL	BSS340NW 400 mΩ, 0.88 A, LL	BSD340N 400 mΩ, 0.88 A, LL	
							BSS316N 160 mΩ, 1.4 A, LL		BSD316SN 160 mΩ, 1.4 A, LL	
	55					BSS670S2L 650 mΩ, 0.54 A, LL				
	60	BSP318S 90 mΩ, 2.6 A, LL	BSL606SN 60 mΩ, 4.5 A, LL	BSS606N 60 mΩ, 3.2 A, LL	BSR606N 60 mΩ, 2.3 A, LL	IRLML0060 ²⁾ 92 mΩ, 2.7 A, LL				IRL60HS118 ²⁾ 17.0 mΩ, 18.5 A, LL
		BSP320S 120 mΩ, 2.9 A, NL				IRLML2060 ²⁾ 480 mΩ, 1.2 A, LL				
		BSP295 300 mΩ, 1.8 A, LL				SN7002N 5 Ω, 0.2 A, LL	BSS138W 3.5 Ω, 0.28 A, LL			
						BSS138N 3.5 Ω, 0.23 A, LL				
						BSS7728N 5 Ω, 0.2 A, LL	SN7002W 5 Ω, 0.23 A, LL			
						2N7002 3 Ω, 0.3 A, LL		2N7002DW 3 Ω, 0.3 A, LL, dual		
	75	BSP716N 160 mΩ, 2.3 A, LL	BSL716SN 150 mΩ, 2.5 A, LL			BSS159N 8 Ω, 0.13 A, depl.				
	80									
	100	BSP372N 230 mΩ, 1.8 A, LL	BSL372SN 220 mΩ, 2.0 A, LL			IRLML0100 ²⁾ 220 mΩ, 1.6 A, LL				IRL80HS120 ²⁾ 32.0 mΩ, 12.5 A, LL
		BSP373N 240 mΩ, 1.8 A, NL	BSL373SN 230 mΩ, 2.0 A, NL			BSS119N 6 Ω, 0.19 A, LL				IRL100HS121 ²⁾ 42.0 mΩ, 11.0 A, LL
		BSP296N 600 mΩ, 1.2 A, LL	BSL296SN 460 mΩ, 1.4 A, LL			$V_{GS(on)}$ 1.8V to 2.3V				
						BSS123N 6 Ω, 0.19 A, LL				
						$V_{GS(on)}$ 0.8V to 1.8V				
					BSS169 12 Ω, 0.09 A, depl.					
200	BSP297 1.8 Ω, 0.66 A, LL									
	BSP149 3.5 Ω, 0.14 A, depl.									
240	BSP88 6 Ω, 0.35 A, 2.8 V rated		BSS87 6 Ω, 0.26 A, LL		BSS131 14 Ω, 0.1 A, LL					
	BSP89 6 Ω, 0.35 A, LL									
	BSP129 6 Ω, 0.05 A, depl.									
250					BSS139 30 Ω, 0.03 A, depl.					
400	BSP298 3 Ω, 0.5 A, N									
	BSP179 24 Ω, 0.20 A, depl.									
	BSP324 25 Ω, 0.17 A, LL									
500	BSP299 4 Ω, 0.4 A, NL									
600	BSP125 45 Ω, 0.12 A, LL		BSS225 45 Ω, 0.09 A, LL		BSS127 500 Ω, 0.023 A, LL					
	BSP135 60 Ω, 0.02 A, depl.				BSS126 700 Ω, 0.007 A, depl.					
800	BSP300 20 mΩ, 0.19 A, NL									

¹⁾ $R_{DS(on)}$ specified at 4.5 V ²⁾ Not qualified to automotive AEC Q101

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NL: Normal level
LL: Logic level
SLL: Super logic level
ULL: Ultra logic level

to be used from V_{GS}
10 V
4.5 V
2.5 V
1.8 V

