

Small signal and small power MOSFETs

Selection guide 2026–2027

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Small signal/small power MOSFETs -250 to 600 V

Combining latest high-performance silicon technology with small and innovative packaging

Small signal/small power products are ideally suited for space-constrained automotive and non-automotive applications. With an optimal price/performance ratio and small-footprint packages, Infineon's small signal and small power MOSFETs best fit a wide range of applications and circuits. These include low-voltage drives, linear battery chargers, battery protection, load switches, DC-DC converters, reverse polarity protection, and many more.

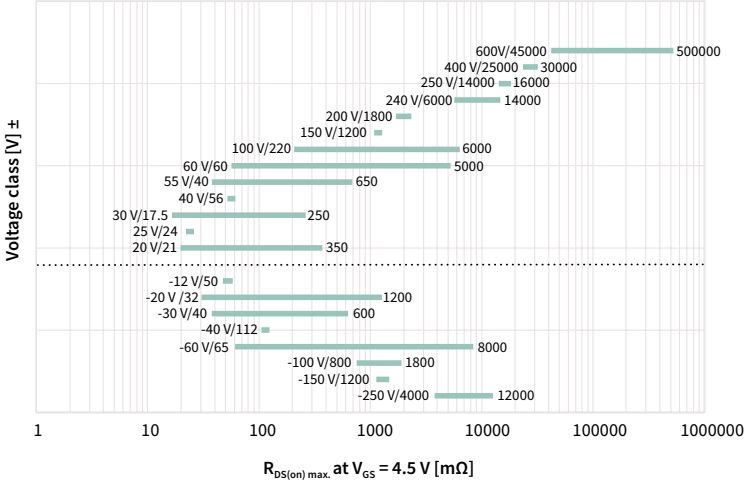
The entire family includes different packages:
SOT-223, SOT-23, SOT-323, SOT-363, SOT-89, TSOP-6, SC59, and DFN2020

The product portfolio covers N-channel and P-channel enhancement mode MOSFETs as well as N-channel depletion mode products:

- -250 to -12 V P-channel enhancement mode (available in single and dual configurations)
- 20 to 600 V N-channel enhancement mode (available in single and dual configurations)
- -20/+20 V and -30/+30 V complementary (N and P-channel) enhancement mode
- 60 to 600 V N-channel depletion mode

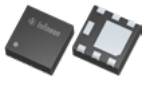
Features and benefits

Key features	Key benefits
– Products available in automotive, industrial, and standard qualification levels	– Suitable for automotive and high quality demanding applications
– Four $V_{GS(th)}$ classes available for 1.8 V, 2.5 V, 4.5 V, and 10 V gate drives	– Easy interface to MCU
– ESD protected P-channel parts	– Reduction of design complexity
– V_{DS} range from -250 to 600 V	– Wide selection of products available
– RoHS compliant and halogen-free	– Environment-friendly



Small signal/small power MOSFETs are available in seven industry-standard package types ranging from the largest SOT-223 to the smallest DFN2020.

Products are offered in single, dual, and complementary configurations and are suitable for a wide range of applications, including battery protection, LED lighting, low-voltage drives, and DC-DC converters.

SOT-363	SOT-323	SOT-23	TSOP-6	SC59	SOT-89	SOT-223	DFN2020
							

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Small signal/small power N-channel

Automotive · Consumer · DC-DC · eMobility · Industrial drives · Motor control · Notebook · Onboard · Telecom · Data Center

Voltage [V]		SOT-223	TSOP-6	SOT-89	SC59	SOT-23	SOT-323	SOT-363	PQFN2x2/DFN2020
N-channel	20 V		BSL202SN [4] 36 mΩ, 7.5 A, SLL		BSR802N [5] 32 mΩ, 3.7 A, ULL	IRLML6244 [1] [4] 27 mΩ, 6.3 A, SLL	BSS816NW [5] 240 mΩ, 1.4 A, ULL	BSD214SN [4] 250 mΩ, 1.5 A, SLL	IRLHS6242 [1] [3] 11 mΩ, 22 A, LL
			BSL806N [5] 82 mΩ, 2.3 A, ULL, dual			IRLML6246 [1] [4] 66 mΩ, 4.1 A, SLL	BSS214NW [4] 250 mΩ, 1.5 A, SLL	BSD840N [5] 560 mΩ, 0.88 A, ULL, dual	ISK165N02KMA [3] 16 mΩ, 26 A, SLL
						BSS806N [5] 82 mΩ, 2.3 A, ULL		BSD235N [4] 600 mΩ, 0.95 A, SLL, dual	ISK500N02KMA [3] 50 mΩ, 11.1 A, SLL
						BSS806NE [5] 82 mΩ, 2.3 A, ULL, ESD			
						BSS205N [4] 85 mΩ, 2.5 A, SLL			
						BSS214N [4] 250 mΩ, 1.5 A, SLL			
	25 V					IRFML8244 [1] [3] 41 mΩ, 5.8 A, LL			
	30 V		IRLTS6342 [1] [4] 22 mΩ, 8.3 A, SLL			IRLML6344 [1] [4] 37 mΩ, 5.0 A, SLL			ISK170N03LMA [3] 17 mΩ, 26 A, SLL
						IRLML0030 [1] [3] 40 mΩ, 5.3 A, LL			ISK500N03LMA [3] 50 mΩ, 12.1 A, SLL
						IRLML6346 [1] [4] 80 mΩ, 3.4 A, SLL			IRLHS6376 [1] [3] 63 mΩ, 7.6 A, LL, dual
						BSS306N [3] 93 mΩ, 2.3 A, LL			
						IRLML2030 [1] [3] 154 mΩ, 2.7 A, LL			
						BSS316N [3] 280 mΩ, 1.4 A, LL			
						IRLML2803 [3] 400 mΩ, 1.2 A, LL			
	40 V					IRLML0040 [1] [3] 78 mΩ, 3.6 A, LL			
	55 V	IRFL024Z [1] [2] 57.5 mΩ, 5.1 A, NL				BSS670S2L [3] 825 mΩ, 0.54 A, LL			
		IRLL2705 [1] [3] 65 mΩ, 3.8 A, LL							
		IRLL024N [1] [3] 100 mΩ, 3.5 A, LL							
		IRFL014N 160 mΩ, 1.9 A, NL							
		IRLL014N [1] [3] 280 mΩ, 2.0 A, LL							
	60 V	BSP295 [3] 500 mΩ, 1.8 A, LL	BSL606SN [3] 95 mΩ, 4.5 A, LL	BSS606N [3] 90 mΩ, 3.2 A, LL		IRLML0060 [1] [3] 116 mΩ, 2.7 A, LL	BSS138W [3] 4 Ω, 0.28 A, LL	2N7002DW [3] 4 Ω, 0.3 A, LL, dual	IRL60HS118 [1] [3] 23 mΩ, 18.5 A, LL
						IRLML2060 [1] [3] 640 mΩ, 1.2 A, LL	SN7002W [3] 7.5 Ω, 0.23 A, LL		
						2N7002 [1] [3] 4 Ω, 0.3 A, LL			
						BSS138I [1] [3] 4 Ω, 0.23 A, LL			
						BSS138N [3] 4 Ω, 0.23 A, LL			
						SN7002I [1] [3] 7.5 Ω, 0.2 A, LL			
						SN7002N [3] 7.5 Ω, 0.2 A, LL			
						BSS159N [6] 8 Ω, 0.13 A, depletion			
	80 V								IRL80HS120 [1] [3] 42 mΩ, 12.5 A, LL
	100 V	IRFL4310 200 mΩ, 1.6 A, NL				IRLML0100 235 mΩ, 1.6 A, LL			IRL100HS121 [1] [3] 59 mΩ, 11 A, LL
		BSP373N [2] 240 mΩ, 1.8 A, NL				BSS119N [3] 10 Ω, 0.19 A, LL			
		BSP372N [3] 270 mΩ, 1.8 A, LL				BSS123I [1] [3] 10 Ω 0.19 A, LL			
		BSP296N [3] 800 mΩ, 1.2 A, LL				BSS123N [3] 10 Ω 0.19 A, LL			
						BSS169I [1] [6] 12 Ω, 0.09 A, depletion			
						BSS169 [6] 12 Ω, 0.09 A, depletion			
	150 V	IRFL4315 [1] [2] 185 mΩ, 2.6 A, NL	IRF5802 [1] [2] 1.2 Ω, 0.9 A, NL						
	200 V	BSP297 [3] 3 Ω, 0.66 A, LL	IRF5801 [1] [2] 2.2Ω, 0.6 A, NL						
		BSP149 [6] 3.5 Ω, 0.14 A, LL, depletion							
	240 V	BSP88 [3] 7.5 Ω, 0.35 A, SLL		BSS87 [3] 7.5 Ω, 0.26 A, LL		BSS131 [3] 20 Ω, 0.11 A, LL			
		BSP89 [3] 7.5 Ω, 0.35 A, LL				BSS131I [3] 20 Ω, 0.121 A, LL			
		BSP129 [6] 20 Ω, 0.05 A, LL, depletion							
	250 V					BSS139I [1] [6] 30 Ω, 0.10 A, LL, depletion			
						BSS139 [6] 30 Ω, 0.10 A, LL, depletion			
	400 V	BSP324 [3] 22 Ω, 0.17 A, LL							
	600 V	BSP125 [3] 60 Ω, 0.12 A, LL		BSS225 [3] 45 Ω, 0.09 A, LL		BSS127I [1] [3] 600 Ω, 0.021 A, LL			
		BSP135I [1] [6] 60 Ω, 0.02 A, LL, depletion				BSS127 [3] 600 Ω, 0.021 A, LL			
		BSP135 [6] 60 Ω, 0.02 A, LL, depletion				BSS126I [1] [6] 700 Ω, 0.021 A, LL, depletion			
						BSS126 [6] 700 Ω, 0.021 A, LL, depletion			

1) not qualified to Automotive AEC-Q101
2) $R_{DS(on)}$ specified at 10 V
3) $R_{DS(on)}$ specified at 4.5 V
4) $R_{DS(on)}$ specified at 2.5 V
5) $R_{DS(on)}$ specified at 1.8 V
6) $R_{DS(on)}$ specified at 0 V

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Small signal/small power P-channel

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Voltage [V]		SOT-223	TSOP-6	SOT-89	SC59	SOT-23	SOT-323	SOT-363	PQFN2x2/DFN2020
P-channel MOSFETs	-250 V	BSP317P [3] 5 Ω, -0.43 A, LL		BSS192P [3] 15 Ω, -0.19 A, LL	BSR92P [3] 13 Ω, -0.14 A, LL				
		BSP92P [3] 15 Ω, -0.26 A, LL							
	-150 V	ISP14EP15LM [1] [3] 1.4 Ω, -1.29 A, LL							
	-100 V	ISP16DP10LMA 167 mΩ, -2.2 A, LL			BSR316P [3] 2.2 Ω, -0.36 A, LL				
		ISP16DP10LM [1] [3] 190 mΩ, -3.9 A, LL							
		BSP322P [3] 1 Ω, -1.0 A, LL							
		ISP98DP10LM [1] [3] 1.05 Ω, -1.55 A, LL							
		ISP20EP10LM [1] [3] 2.2 Ω, -0.99 A, LL							
		BSP316P [3] 2.3 Ω, -0.68 A, LL							
	-60 V	ISP650P06NM [1] [2] 65 mΩ, -3.7 A, NL			BSR315P [3] 1.3 Ω, -0.62 A, LL		BSS84PW [3] 12 Ω, -0.15 A, LL		
		ISP670P06NMA 67 mΩ, -3.7 A, NL				BSS83P [3] 3 Ω, -0.33 A, LL			
		ISP12DP06NM [1] [2] 125 mΩ, -2.8 A, NL				BSS83I [3] 3 Ω,-0.55 A, LL			
		BSP613P [2] 130 mΩ, -2.9 A, NL				BSS84P [3] 12 Ω, -0.17 A, LL			
		BSP170P [2] 300 mΩ, -1.9 A, NL				BSS84I [3] 12 Ω,-0.29 A, LL			
		BSP171I [3] 450 mΩ,-3.2 A, LL							
		BSP170I [3] 450 mΩ,-3.2 A, NL							
		BSP171P [3] 450 mΩ, -1.9 A, LL							
		ISP75DP06LM [1] [3] 1 Ω, -1.1 A, LL							
		BSP315P [3] 1.4 Ω, -1.17 A, LL							
	-30 V		BSL307SP [3] 74 mΩ, -5.5 A, LL			BSS308PE [3] 130 mΩ, -2.1 A, LL, ESD			
			BSL308PE [3] 130 mΩ, -2.1 A, LL, dual, ESD			BSS314PE [3] 230 mΩ, -1.5 A, LL, ESD			
						BSS315P [3] 270 mΩ, -1.5 A, LL			
						IRLML5103 [1] [3] 1000 mΩ, -0.76A, LL			
	-20 V		BSL207SP [4] 41 mΩ, -6.0 A, SLL			BSS215P [4] 280 mΩ, -1.5 A, SLL	BSS209PW [4] 900 mΩ, -0.58 A, SLL	BSV236SP [4] 285 mΩ, -1.5 A, SLL	ISK400P02KMA [3] 40 mΩ, -22 A, SLL
							BSS223PW [4] 2.1 Ω, -0.39 A, SLL	BSD223P [4] 2.1 Ω, -0.39 A, SLL, dual	ISK120P02KMA [3] 120 mΩ, -8.5 A, SLL
			BSL211SP [4] 110 mΩ, -4.7 A, SLL						

Small signal/small power complementary

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Voltage [V]		TSOP-6	SOT-363
Complementary	-20/20	BSL215C [4] N: 250 mΩ, 1.5 A, SLL P: 280 mΩ, -1.5 A, SLL	BSD235C [4] N: 600 mΩ, 0.95 A, SLL P: 2.1 Ω, -0.53 A, SLL
	-30/30	BSL308C [3] N: 93 mΩ, 2.3 A, LL P: 130 mΩ, -2.0 A, LL	
		BSL316C [3] N: 280 mΩ, 1.4 A, LL P: 270 mΩ, -1.5 A, LL	

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3) $R_{DS(on)}$ specified at 4.5 V
4) $R_{DS(on)}$ specified at 2.5 V
5) $R_{DS(on)}$ specified at 1.8 V
6) $R_{DS(on)}$ specified at 0 V

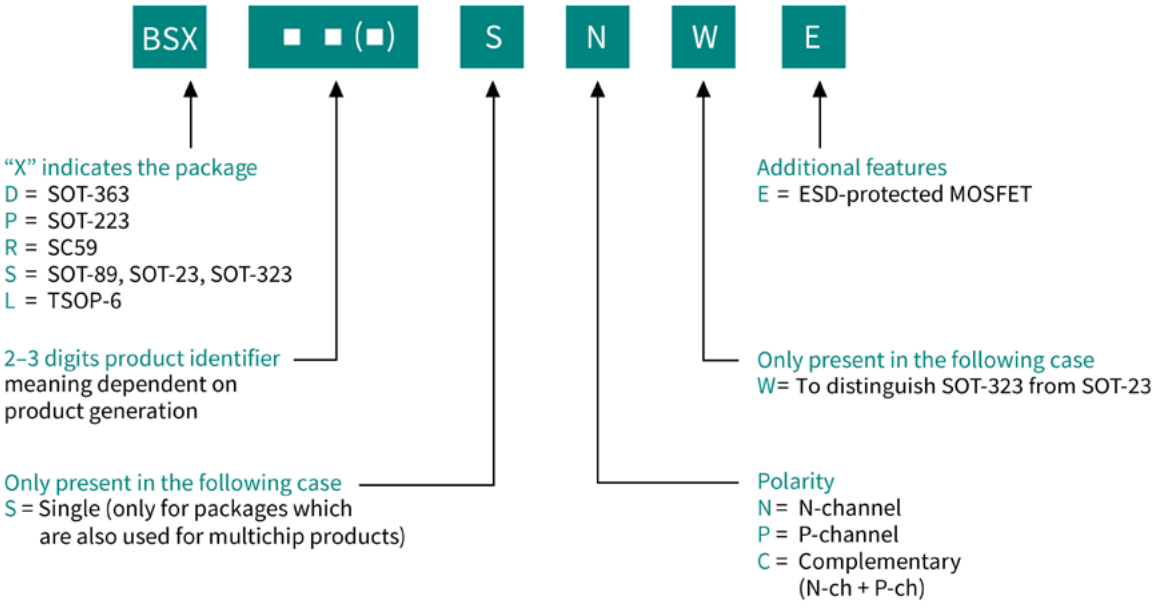
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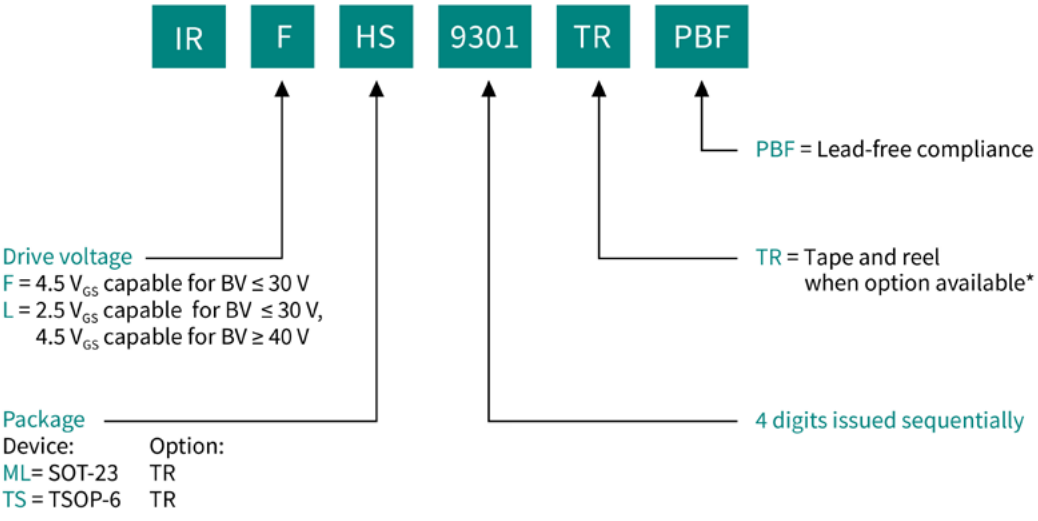
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Nomenclature

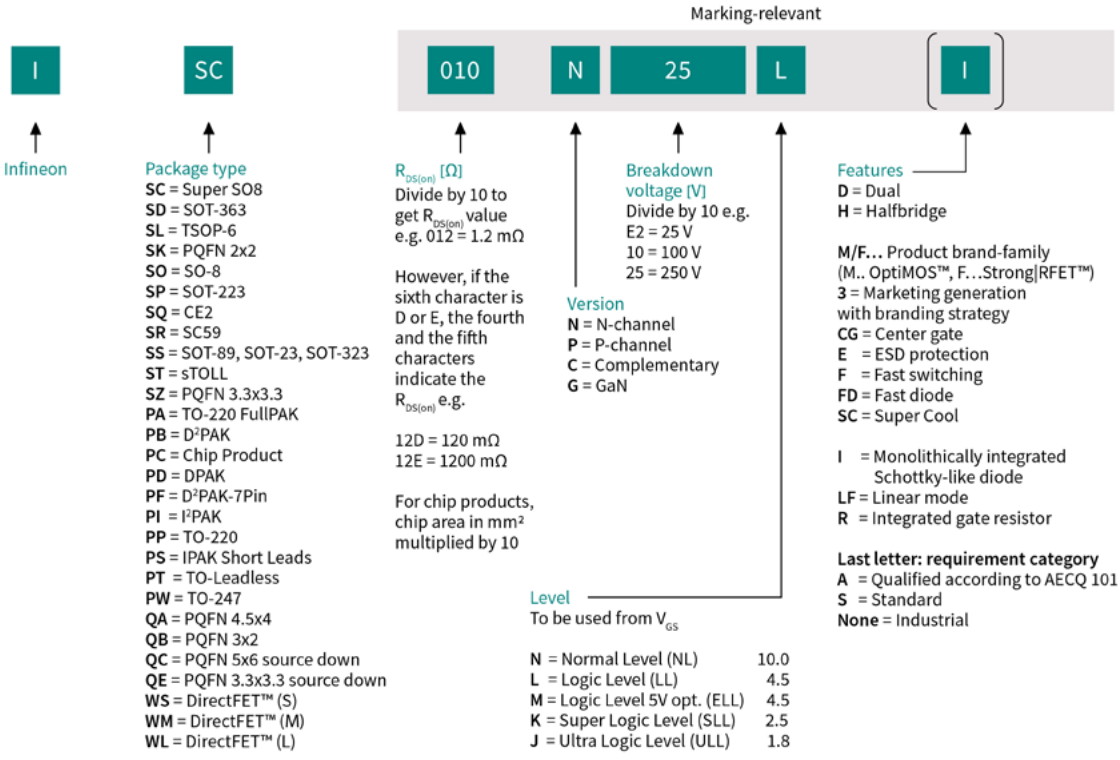
Small signal



Small power



Small signal and small power



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