



# P-channel MOSFETs

Selection guide

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# Small Signal and Small Power MOSFETs



	Voltage [V]	SOT-223 	TSOP-6 	SOT-89 	SC-59 	SOT-23 	SOT-323 	SOT-363 	
P-channel MOSFETs	-250	BSP317P <sup>2)</sup> 4 Ω, -0.43 A, LL BSP92P <sup>2)</sup> 12 Ω, -0.26 A, LL		BSS192P <sup>2)</sup> 12 Ω, -0.19 A, LL	BSR92P <sup>2)</sup> 11 Ω, -0.14 A, LL				
	-100	BSP321P <sup>2)</sup> 900 mΩ, -0.98 A, NL BSP322P <sup>2)</sup> 800 mΩ, -1.0 A, LL BSP316P <sup>2)</sup> 1.8 Ω, -0.68 A, LL			BSR316P <sup>2)</sup> 1.8 Ω, -0.36 A, LL				
	-60	BSP612P <sup>2)</sup> 120 mΩ, 3 A, LL BSP613P <sup>2)</sup> 130 mΩ, 2.9 A, NL BSP170P <sup>2)</sup> 300 mΩ, -1.9 A, NL BSP171P <sup>2)</sup> 300 mΩ, -1.9 A, LL BSP315P <sup>2)</sup> 800 mΩ, -1.17 A, LL				BSS83P <sup>2)</sup> 2 Ω, -0.33 A, LL BSS84P <sup>2)</sup> 8 Ω, -0.17 A, LL	BSS84PW <sup>2)</sup> 8 Ω, -0.15 A, LL		
	-30		BSL303SPE <sup>2)</sup> 33 mΩ, -6.3 A, LL IRFTS9342TRPBF 40 mΩ, -5.8 A, LL BSL305SPE <sup>2)</sup> 45 mΩ, -5.3 A, LL BSL307SP <sup>2)</sup> 43 mΩ, -5.5 A, LL BSL308PE <sup>2)</sup> 80 mΩ, -2.1 A, LL, ESD, dual BSL314PE <sup>2)</sup> 140 mΩ, -1.5 A, LL, ESD, dual				IRLML9301TRPBF 64 mΩ, -3.6 A, LL BSS308PE <sup>2)</sup> 80 mΩ, -2.1 A, LL, ESD BSS314PE <sup>2)</sup> 140 mΩ, -1.5 A, LL, ESD BSS315P <sup>2)</sup> 150 mΩ, -1.5 A, LL IRLML9303TRPBF 165 mΩ, -2.3 A, LL		BSD314SPE <sup>2)</sup> 140 mΩ, -1.5 A, LL, ESD
	-20		IRLTS2242TRPBF <sup>3)</sup> 32 mΩ, -6.9 A, SLL BSL207SP <sup>2)</sup> 41 mΩ, -6 A, SLL BSL211SP <sup>2)</sup> 67 mΩ, -4.7 A, SLL			IRLML2244TRPBF <sup>3)</sup> 54 mΩ, -4.3 A, SLL IRLML2246TRPBF <sup>3)</sup> 135 mΩ, -2.6 A, SLL BSS215P <sup>2)</sup> 150 mΩ, -1.5 A, SLL	BSS209PW <sup>2)</sup> 550 mΩ, -0.58 A, SLL BSS223PW <sup>2)</sup> 1.2 Ω, -0.39 A, SLL	BSV236SP <sup>2)</sup> 175 mΩ, -1.5 A, SLL BSD223P <sup>2)</sup> 1.2 Ω, -0.39 A, SLL, dual	
	Complementary	-20/20		BSL215C <sup>2)</sup> N: 140 mΩ, 1.5 A, SLL P: 150 mΩ, -1.5 A, SLL					BSD235C <sup>2)</sup> N: 350 mΩ, 0.95 A, SLL P: 1.2 Ω, -0.53 A, SLL
		-30/30		BSL316C <sup>2)</sup> N: 160 mΩ, 1.4 A, LL P: 150 mΩ, -1.5 A, LL BSL308C <sup>2)</sup> N: 57 mΩ, 2.3 A, LL P: 80 mΩ, -2.0 A, LL,					

<sup>2)</sup> Products are qualified to automotive AEC Q101

<sup>3)</sup> R<sub>DS(on)</sub> specified at 4.5 V

to be used from V<sub>GS</sub>

NL:	Normal level	10 V
LL:	Logic level	4.5 V
SLL:	Super logic level	2.5 V
ULL:	Ultra logic level	1.8 V

# Power package MOSFETs



		$R_{DS(on)} \Omega @ V_{GS}=10V$	TO-220	TO-252 (DPAK)	TO-263 (D <sup>2</sup> PAK)	SO8	SuperSO8	PQFN 3.3 x 3.3	PQFN 2 x 2	DirectFET™	
P-channel MOSFETs	- 20 V	7				BSO201SP H					
		21				BSO203SP H BSO203P H (dual)					
		31								IRLHS2242TRPBF <sup>3)</sup>	
		45					BSO207P H (dual)				
		67					BSO211P H (dual)				
	- 30 V	2-3						BSC030P03NS3 G			IRF9383MTRPBF
		~4		IPD042P03L3 G		IRF9310TRPBF	IRFH9310TRPBF				
		5-7		SPD50P03L G <sup>2)</sup> IPD068P03L3 G		IRF9317TRPBF IRF9321TRPBF	BSC060P03NS3E G				IRF9395M (dual)
		~8				BSO080P03NS3 G BSO080P03NS3E G BSO080P03S H BSO301SP H	BSC084P03NS3 G BSC084P03NS3E G	BSZ086P03NS3 G BSZ086P03NS3E G			
		~12				IRF9328TRPBF IRF9388TRPBF		BSZ120P03NS3 G BSZ120P03NS3E G			
		13				BSO130P03S H					
		~15						IRFHM9391TRPBF			
		16-17				IRF9358TRPBF IRF9332TRPBF IRF9392TRPBF		BSZ180P03NS3 G BSZ180P03NS3E G			
		18-19				IRF9333TRPBF IRF9393TRPBF					
		20				BSO200P03S H BSO303SP H					
		21				BSO303P H (dual) IRF9362TRPBF (dual)					
		37								IRFHS9301TRPBF	
		59				IRF9335TRPBF					
		170								IRFHS9351TRPBF (dual)	
	- 60 V	23	SPP80P06P H <sup>2)</sup>		SPB80P06P G <sup>2)</sup>						
		75		SPD30P06P G <sup>2)</sup>							
		130	SPP18P06P H <sup>2)</sup>	SPD18P06P G <sup>2)</sup>	SPB18P06P G <sup>2)</sup>	BSO613SPV G <sup>2)</sup>					
		250		SPD09P06PL G <sup>2)</sup>							
		300	SPP08P06P H <sup>2)</sup>	SPD08P06P G <sup>2)</sup>	SPB08P06P G <sup>2)</sup>						
	- 100 V	200	SPP15P10PL H <sup>2)</sup>	SPD15P10PL G <sup>2)</sup>							
		240	SPP15P10P H <sup>2)</sup>	SPD15P10P G <sup>2)</sup>							
		850		SPD04P10PL G <sup>2)</sup>							
1 Ω			SPD04P10P G <sup>2)</sup>								
Comp.	-30/30 V	27-64				IRF9389TRPBF					
	-60/60 V	11-30				BSO612CV G <sup>2)</sup> BSO615C G <sup>2)</sup>					
Comp.	$R_{DS(on)} \Omega @ V_{GS}=4.5V$							BSZ15DC02KD H <sup>2)</sup> <sup>3)</sup> BSZ215C H <sup>2)</sup> <sup>3)</sup>			
	-20/20 V	55-150									

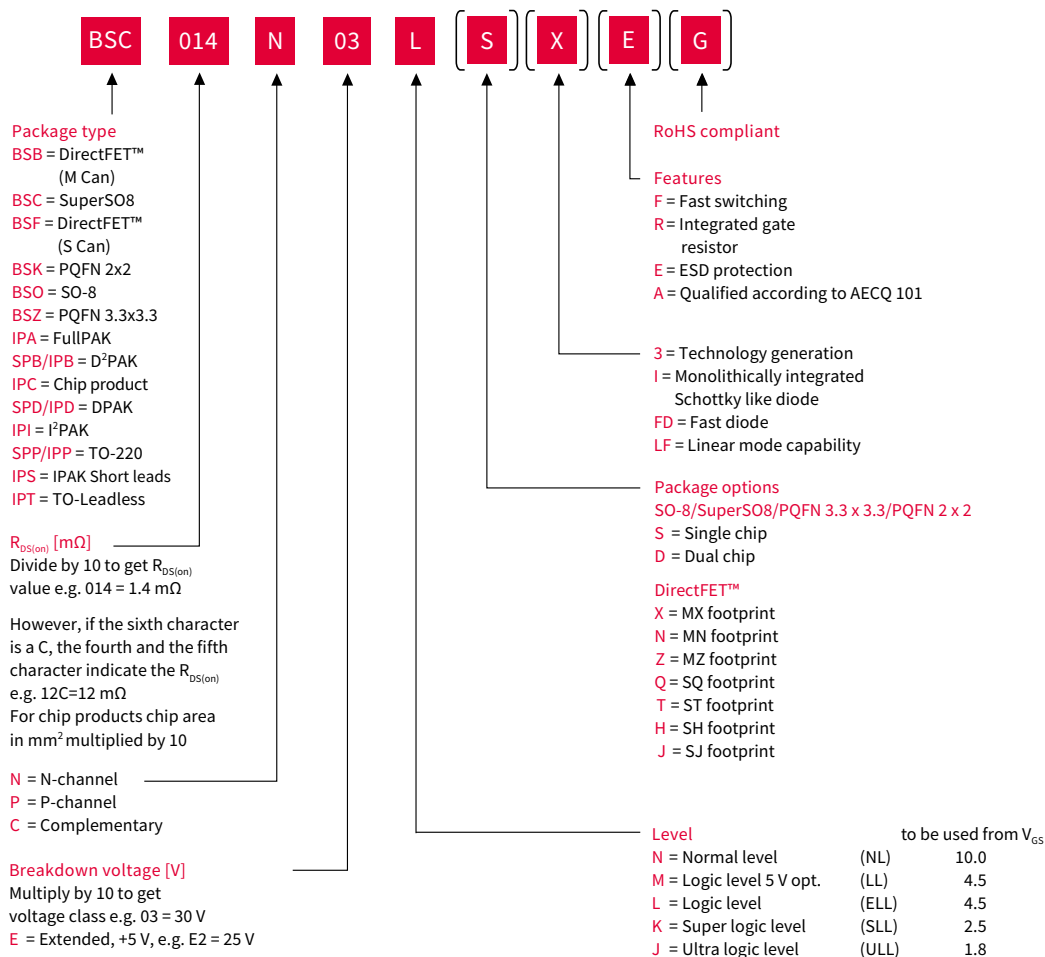
<sup>1)</sup> 5-leg

<sup>2)</sup> Products are qualified to automotive AEC Q101

<sup>3)</sup>  $R_{DS(on)}$  specified at 4.5 V

# Naming system

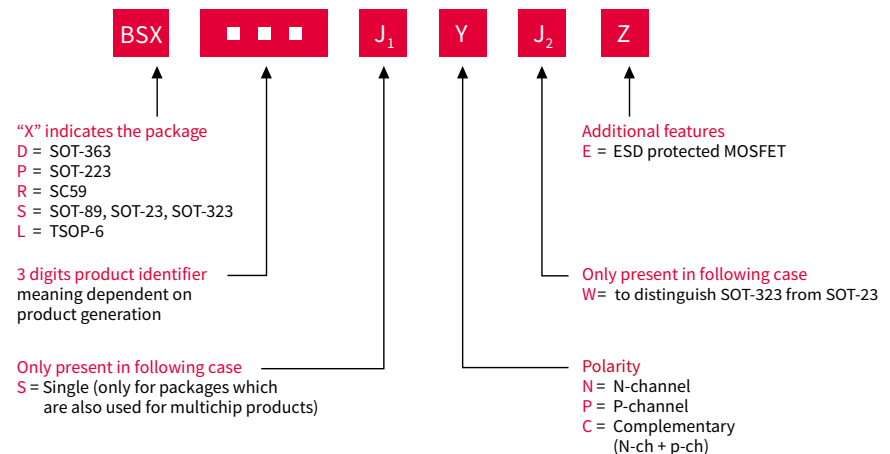
## OptiMOS™



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