



# P-channel MOSFETs

Selection guide 2023

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Power P-channel MOSFETs



Voltage [V]		TO-252 (DPAK)	TO-263 (D <sup>2</sup> PAK)	TO-220	PQFN 3.3x3.3	SuperSO8	SO8	PQFN 2x2
P-channel MOSFETs	-20						BSO201SP H R <sub>DS(on)</sub> =7.0 mΩ	
								IRLHS2242TRPBF** R <sub>DS(on)</sub> =31.0 mΩ
	-30	IPD042P03L3 G R <sub>DS(on)</sub> =4.2 mΩ				BSC030P03NS3 G R <sub>DS(on)</sub> =3.0 mΩ BSC060P03NS3E G R <sub>DS(on)</sub> =6.0 mΩ; ESD	IRF9310 R <sub>DS(on)</sub> =4.6 mΩ IRF9317 R <sub>DS(on)</sub> =6.6 mΩ	
					BSZ086P03NS3 G R <sub>DS(on)</sub> =8.6 mΩ	IRFH9310 R <sub>DS(on)</sub> =4.6 mΩ	IRF9321 R <sub>DS(on)</sub> =7.2 mΩ	
		SPD50P03L G <sup>1)</sup> *			BSZ086P03NS3E G R <sub>DS(on)</sub> =8.6 mΩ			
						BSC084P03NS3 G R <sub>DS(on)</sub> =8.4 mΩ		
					BSZ120P03NS3 G R <sub>DS(on)</sub> =12.0 mΩ		BSO301SP H R <sub>DS(on)</sub> =8.0 mΩ IRF9388TRPBF R <sub>DS(on)</sub> =11.9 mΩ	
							IRF9358 R <sub>DS(on)</sub> =16 mΩ; dual	
					BSZ180P03NS3 G R <sub>DS(on)</sub> =18.0 mΩ BSZ180P03NS3E G R <sub>DS(on)</sub> =18.0 mΩ; ESD			
								IRFHS9301TRPBF R <sub>DS(on)</sub> =37.0 mΩ
							IRF9362 R <sub>DS(on)</sub> =21 mΩ; dual IRF9335 R <sub>DS(on)</sub> =59 mΩ	
	-60	IPD380P06NM R <sub>DS(on)</sub> = 38 mΩ	IPB110P06LM R <sub>DS(on)</sub> = 11 mΩ	SPP80P06P H* R <sub>DS(on)</sub> =23.0 mΩ	ISZ810P06LM R <sub>DS(on)</sub> = 81 mΩ	ISC240P06LM R <sub>DS(on)</sub> = 24 mΩ		
		IPD650P06NM R <sub>DS(on)</sub> = 65 mΩ	SPB80P06P G* R <sub>DS(on)</sub> =23.0 mΩ			ISC800P06LM R <sub>DS(on)</sub> = 80 mΩ		
		SPD30P06P G* R <sub>DS(on)</sub> =75.0 mΩ						
		IPD900P06NM R <sub>DS(on)</sub> = 90 mΩ						
		SPD18P06P G* R <sub>DS(on)</sub> =130.0 mΩ						
		SPD09P06PL G* R <sub>DS(on)</sub> =250.0 mΩ						
		IPD25DP06NM R <sub>DS(on)</sub> = 250 mΩ						
		SPD08P06P G* R <sub>DS(on)</sub> =300.0 mΩ						
	-100	IPD40DP06NM R <sub>DS(on)</sub> = 400 mΩ						
		SPD15P10PL G* R <sub>DS(on)</sub> =200.0 mΩ	IPB320P10LM R <sub>DS(on)</sub> = 32 mΩ		ISZ24DP10LM R <sub>DS(on)</sub> = 245 mΩ	ISC750P10LM R <sub>DS(on)</sub> =75 mΩ		
		SPD15P10P G* R <sub>DS(on)</sub> =240.0 mΩ	IPB330P10NM R <sub>DS(on)</sub> = 33 mΩ	IPP330P10NM R <sub>DS(on)</sub> =33 mΩ				
		SPD04P10PL G* R <sub>DS(on)</sub> =850.0 mΩ	IPB19DP10NM R <sub>DS(on)</sub> = 185 mΩ					
		IPD11DP10NM R <sub>DS(on)</sub> =111 mΩ						
		IPD18DP10LM R <sub>DS(on)</sub> = 178 mΩ						
	-150	IPD19DP10NM R <sub>DS(on)</sub> = 186 mΩ						
		IPD42DP15LM R <sub>DS(on)</sub> = 420 mΩ	IPB720P15LM R <sub>DS(on)</sub> = 72 mΩ		ISZ56DP15LM R <sub>DS(on)</sub> = 560 mΩ ISZ75DP15LM R <sub>DS(on)</sub> = 750 mΩ ISZ15EP15LM R <sub>DS(on)</sub> = 1500 mΩ	ISC16DP15LM R <sub>DS(on)</sub> = 160 mΩ		

Power MOSFETs complementary



Voltage [V]			PQFN 3.3x3.3	SO8
Complementary	-20/20	>50 mΩ	BSZ15DC02KD H*/** N: 55 mΩ, 5.1 A P: 150 mΩ, -3.2 A BSZ215C H*/** N: 55 mΩ, 5.1 A P: 150 mΩ, -3.2 A	
	-30/30	27-64 mΩ		IRF9389 N: 27 mΩ, 6.8 A P: 64 mΩ, -4.6 A

www.infineon.com/pchannel  
www.infineon.com/complementary

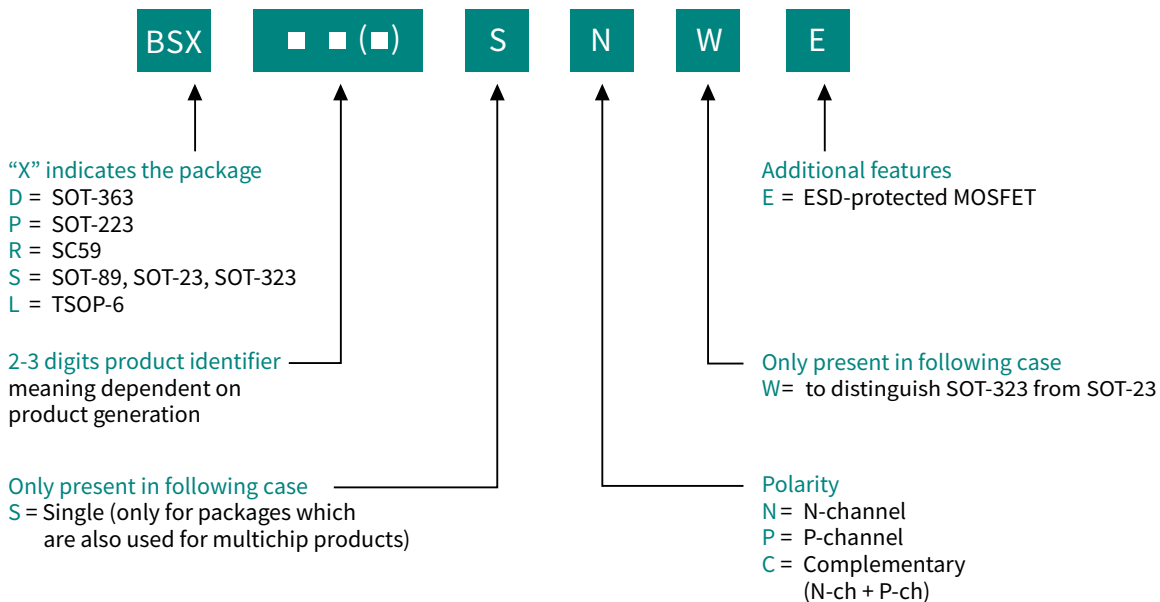
\* Products are qualified to Automotive AEC Q101  
\*\* R<sub>DS(on)</sub> specified at 4.5 V  
1) 5-leg

For more details on the product, click on the part number, visit [infineon.com](https://www.infineon.com) or contact our [product support](#).

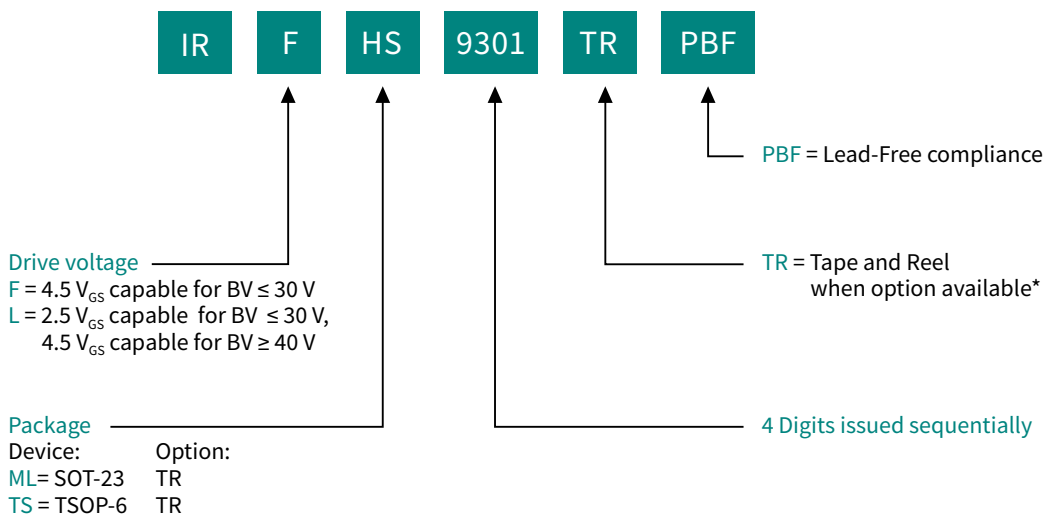


# Nomenclature

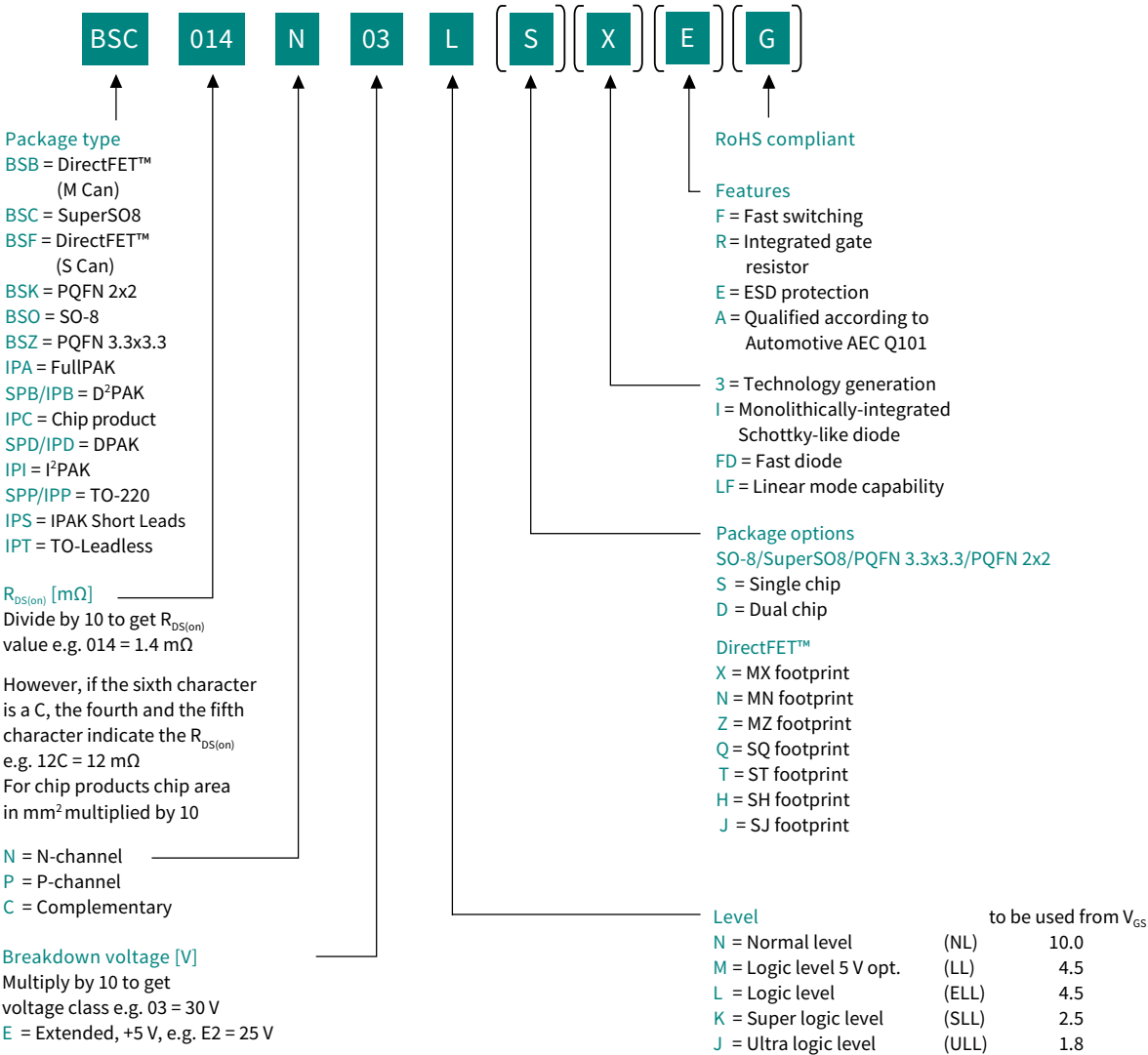
## Small signal



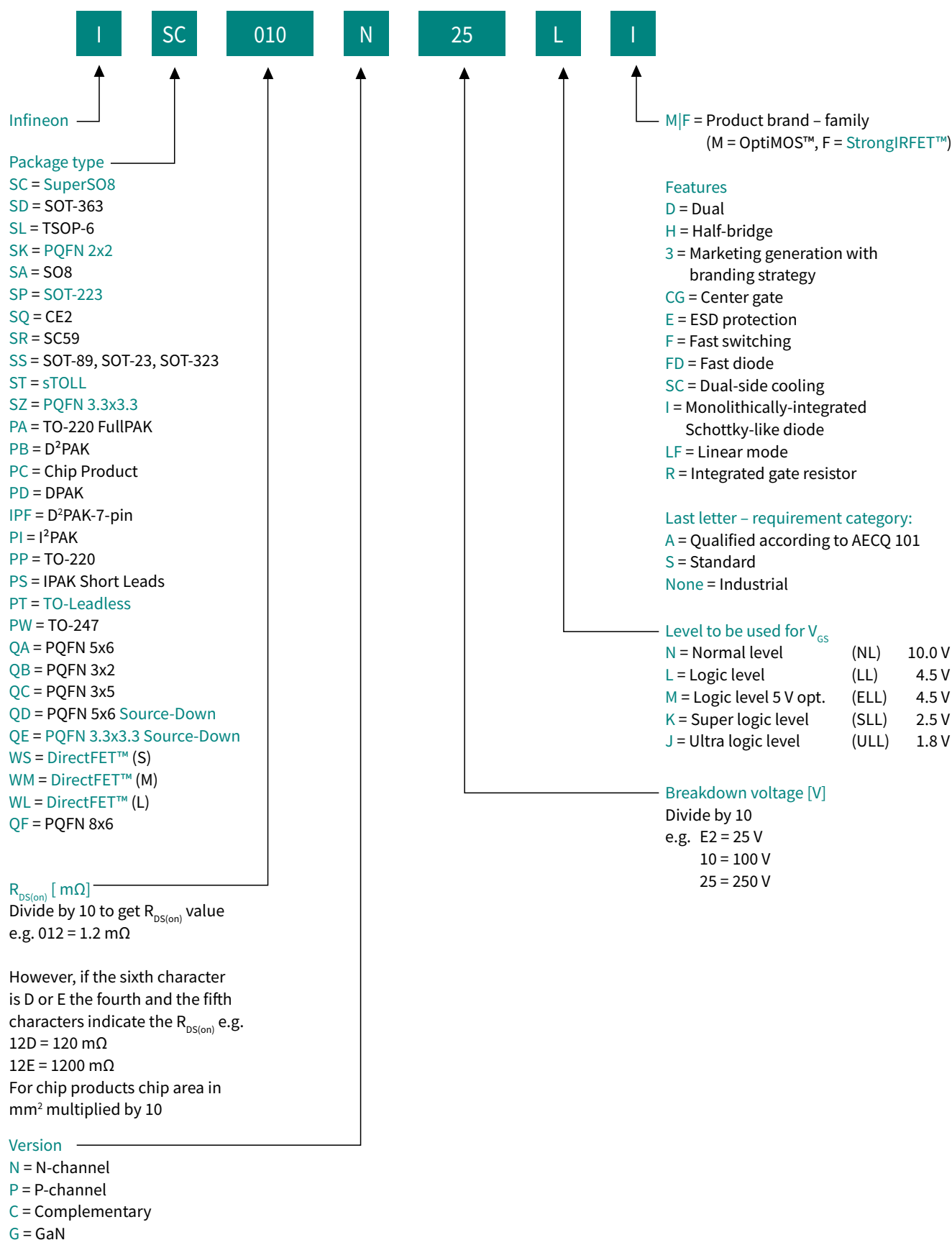
## Small power



OptiMOS™



## New nomenclature for OptiMOS™ and StrongIRFET™ MOSFETs (2019 onward)





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