





# **MV-MOSFET Product Line up**

# Automotive MV MOSFET – 30V

Released  
In Development  
L (on last digits): Logic Level device

Engineering Sample available

PKG	SO-8FL	μ8FL	LFLPAK33	PWR22
RDS(on)				
0.67 mΩ	NVMFS4C01N			
1.15 mΩ	NVMFS4C302N			
1.7 mΩ	NVMFS4C03N			
2.25mΩ		NVTFS4C02N	NVTYS002N03CL	
2.8 mΩ	NVMFS4C05N			
3.4 mΩ	NVMFS4C306N			
3.6 mΩ		NVTFS4C05N	NVTYS003N03CL	
4.1 mΩ	NVD4C05N			
4.2 mΩ		NVTFS4C06N	NVTYS004N03CL	
4.8 mΩ	NVMFS4C308N			
5.0 mΩ				NVLJWS5D0N03CL
5.9 mΩ		NVTFS4C08N		
6 mΩ	NVMFS4C310N			
7.4 mΩ		NVTFS4C10N	NVTYS006N03CL	
9 -9.5 mΩ		NVTFS4C13N		NVLUS4C12N
12 mΩ -21		NVTFS4C25N		NVLJWS012N03CL NVLJWS013N03CL NVLUD4C26N
40 mΩ				NVLJWS040N03CL

# Automotive MV MOSFET – 40V

Released  
In Development  
L (on last digits): Logic Level device

Engineering Sample available  
Planning

PKG	TOLL	PWR88	DPAK	SO-8FL	SO-8FL Dual Die	PWR56 Dual Cool	LFAK4-56	LFAK8-56	LFAK56 Dual	μ8FL	LFAK33	PWR22 Single & Dual Die
RDS(on)												
0.4 mΩ-0.55 mΩ	NVBL50D5N04C	NVMTS0D4N04CL NVMTS0D6N04CL NVMTS0D4N04C NVMTS0D6N04C		NVMFWS0D4N04XM								
0.56 mΩ- 0.79 mΩ	FDBL9401-F085T6	NVMTS0D7N04CL NVMTS0D7N04C		NVMFWS0D5N04XM NVMFS5C404NL NVMFS5C404N NVMFS5C406NL								
0.8 mΩ- 0.99 mΩ	FDBL9403-F085T6			NVMFWS0D7N04XM NVMFS5C406N NVMFS5C410N NVMFS5C410NL		NVMFWSC0D9N04C NVMFWSC0D9N04CL		NVMJS0D9N04C NVMJS0D9N04CL NVMJS0D8N04CL NVMJS1D0N04C				
1.0 mΩ- 1.3 mΩ	FDBL9406-F085T6	NVMTS1D0N04CL NVMTS1D1N04C		NVMFS5C420NL NVMFS5C420N NVMFS5C426NL NVMFS5C426N		NVMFWSC1D3N04C	NVMYS1D2N04CL NVMYS1D3N04C	NVMJS1D2N04CL NVMJS1D3N04C				
1.4 mΩ- 1.9 mΩ				NVMFS5C430NL NVMFS5C430N			NVMYS1D6N04CL NVMYS1D7N04C	NVMJS1D5N04CL NVMJS1D7N04C				
2 mΩ- 2.5 mΩ			NVD5C434N	NVMFS5C423NL NVMFS5C442N NVMFS5C442NL			NVMYS2D4N04C NVMYS2D1N04CL			NVTFS002N04CL NVTFS002N04C		
2.6-3.9 mΩ			NVD5C446N NVD5C454NL	NVMFS5C450NL NVMFS5C450N NVMFS5C456NL	NVMFD5C446NL NVMFD5C446N		NVMYS2D9N04CL NVMYS3D5N04C NVMYS3D8N04CL		NVMJD2D7N04CL NVMJD3D0N04C	NVTFS5C453NL NVTFS003N04C NVTFS5C454NL	NVTYS003N04CL NVTYS003N04C NVTYS004N04CL	
4.2 mΩ-6 mΩ			NVD5C454N NVD5C460NL NVD5C460N NVD5C464NL NVD5C464N	NVMFS5C456N NVMFS5C460NL NVMFS5C460N	NVMFD5C462NL NVMFD5C462N		NVMYS4D5N04C NVMYS4D6N04CL NVMYS5D3N04C		NVMJD4D7N04CL NVMJD5D4N04C	NVTFS004N04C NVTFS5C460NL NVTFS005N04C	NVTYS004N04C NVTYS005N04CL NVTYS005N04C	NVLJWS6D0N04CL
6.2 mΩ - 10 mΩ			NVD5C478NL NVD5C478N	NVMFS5C466NL NVMFS5C466N	NVMFD466NL NVMFD5C466N		NVMYS7D3N04CL NVMYS8D0N04C		NVMJD7D4N04CL NVMJD8D1N04C	NVTFS5C466NL NVTFS5C471NL	NVTYS007N04CL NVTYS010N04CL	
10.1 mΩ - 25 mΩ			NVD5C486NL NVD5C486N	NVMFS5C468NL NVMFS5C468N	NVMFD5C470NL NVMFD5C470N NVMFD5C478NL NVMFD5C478N		NVMYS010N04CL NVMYS011N04C		NVMJD015N04CL NVMJD025N04C	NVTFS5C478NL NVTFS015N04C		NVLJWS011N04CL NVLJWD019N04CL










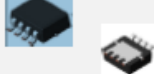

# Automotive MV MOSFET – 60V

Released  
In Development  
L (on last digits): Logic Level device

Engineering Sample available  
Planning

PKG	TOLL	PWR88	DPAK	SO-8FL	SO-8FL Dual Die	PWR56 Dual Cool	LFAK4-56	LFAK8-56	LFAK56 Dual	μ8FL	LFAK33	PWR22 Single & Dual Die
RDS(on)												
0.68 mΩ		NVMTS0D7N06CL										
0.72 mΩ		NVMTS0D7N06C										
0.75 mΩ	NVBLS0D7N06C											
0.81 mΩ		NVMTS001N06CL										
0.9 mΩ	NVBLS001N06C	NVMTS001N06C										
1.1 mΩ - 2 mΩ	FDBL86561-F085 FDBL86563-F085			NVMFS5C604N NVMFS5C604NL NVMFS5C612NL NVMFS5C612N		NVMFSC1D6N06CL	NVMYS2D2N06CL	NVMJS1D4N06CL NVMJS1D6N06CL				
2 mΩ - 5 mΩ	FDBL86566-F085		NVD5C632NL NVD5C648NL	NVMFS5C628NL NVMFS5C628N NVMFS5C638NL NVMFS5C645NL NVMFS5C645N NVMFS5C646NL	NVMFD5C650NL		NVMYS3D3N06CL NVMYS4D1M06CL	NVMJS2D5N06CL		NVTF5C658NL	NVTYS005N06CL	
5 mΩ - 10 mΩ			FDD86569-F085 NVD5C668NL FDD86580-F085	NVMFS5C670NL NVMFS5C673NL	NVMFD5C668NL		NVMYS6D2N06CL NVMYS9D3N06CL			NVTF5C670NL NVTF5C673NL	NVTYS006N06CL NVTYS008N06CL NVTYS010N06CL	
10 mΩ - 20.3 mΩ			FDD86581-F085 NVD5C684NL	NVMFS5C677NL NVMFS016N06C NVMFS020N06C	NVMFD5C672NL NVMFD5C674NL NVMFD016N06C		NVMYS014N06CL		NVMJD012N06CL NVMJD016N06C NVMJD015N06CL	NVTF5016N06C NVTF5020N06C	NVTYS015N06CL	NVLJWS011N06CL
21 mΩ - 70 mΩ			NVD5C688NL	NVMFS5C682NL NVTF5024N06C	NVMFD024N06C NVMFD5C680NL		NVMYS021N06CL NVMYS025N06CL		NVMJD027N06CL	NVTF5024N06C NVTF5025N06CL	NVTYS025N06CL	NVLJWS021N06CL NVLJWD040N06CL NVLJWS070N06CL

# Automotive MV MOSFET – 80V

PKG	D2PAK-7	TOLL	PWR88	PWR88 Dual Cool	DPAK	SO-8FL	SO-8FL Dual Die	LFAK-56	µ8FL	LFAK33	PWR22
RDS(on)											
~1.1 mΩ		NVBLS1D1N08H	NVMTS1D2N08H								
~1.2 mΩ	NVBGS1D2N08H			NVMTSC1D3N08M7							
1.4 mΩ		FDBL86361-F085	NVMTS1D5N08H								
1.7 mΩ		NVBLS1D7N08H									
1.9 mΩ						NVMFS6H800NL					
~ 2 mΩ		FDBL86363-F085				NVMFS6H800N					
~ 2.5 mΩ						NVMFS6H801N					
~ 3 mΩ		FDBL86366-F085				NVMFS6H801NL		NVMYS003N08LH			
~ 3.5 mΩ						NVMFS6H818N					
~ 4 mΩ					FDD86367-F085	NVMFS6H818NL					
4.5 mΩ						NVMFS6H824NL					
5.5 mΩ						NVMFS6H824N					
6.2 mΩ						FDWS86368-F085					
~ 6.5 mΩ						NVMFS6D1N08H					
~ 7 mΩ						NVMFS6H836NL					
7.5 mΩ						NVMFS6H836N		NVMYS006N08LH			
~ 8 mΩ							NVMFD6H840NL		NVTFS007N08HL		
~ 8.5 mΩ					FDD86369-F085						
~ 9 mΩ											
~ 9.5 mΩ						NVMFS6H848NL				NVTYS009N08HL	
~ 13 mΩ						NVMFS6H848N				NVTFS6H850N	
~ 13.5 mΩ						NVMFS6H852NL		NVMYS013N08LH			
~ 14 mΩ											
~ 14.5 mΩ											
~ 20 mΩ					FDD86381-F085	NVMFS6H852N	NVMFD6H846NL				NVTYS014N08HL
~ 25 mΩ						NVMFS6H858NL					
~ 30 mΩ						NVMFS6H858N		NVMYS020N08LH	NVTFS6H860NL	NVTYS020N08HL	
50 mΩ						FDMS86381-F085		NVMJD020N08HL	NVTFS6H860N		
~150 mΩ							NVMFD6H852NL				
						NVMFS6H864NL		NVMYS029N08LH	NVTFS6H880NL	NVTYS029N08HL	
						NVMFS6H864N			NVTFS6H880N	NVTYS029N08H	
									NVTFS6H888NL		
									NVTFS6H888N		
											NVLJWS150N08HL

Released  
In Development  
L (on last digits): Logic Level device

Engineering Sample available  
Planning

# Automotive MV MOSFET – 100V

PKG	TOLL	PWR88	SO-8FL	SO-8FL Dual Die	LFLPAK-56	LFLPAK-56-E	μ8FL	LFLPAK33	PWR22
RDS(on)									
~ 1.5 mΩ	NVBL51D5N10MC NVBL51D7N10MC	NVM51D6N10MC							
~ 2 mΩ	FDBL86062-F085								
~ 2.5 mΩ	FDBL86063-F085		NVMFS002N10MCL						
~ 3 mΩ			NVMFWS003N10MC			NVMJS003N10MCL NVMJS003N10MC			
~3.5 mΩ			NVMFS3D6N10MCL			NVMJS3D6N10MCL			
~ 4 mΩ	FDBL86066-F085		NVMFS004N10MC			NVMJS004N10MC			
~ 5 mΩ			NVMFS005N10MCL		NVMYS005N10MCL				
~ 5.5 mΩ					NVMYS005N10MC				
~ 6.5 mΩ			FDWS86068-F085						
7 mΩ					NVMYS007N10MCL				
~ 9 mΩ									
~ 10 mΩ				NVMFD010N10MCL	NVMJD010N10MCL		NVTFS010N10MCL		
~ 12 mΩ			NVMFS015N10MCL		NVMYS012N10MCL			NVTYS013N10MCL	
~ 15 mΩ			NVMFS016N10MCL		NVMYS016N10MCL		NVTFS016N10MCL		
~ 20 mΩ				NVMFD020N10MCL	NVMJD020N10MCL				
21 mΩ			NVMFS021N10MCL		NVMYS021N10MCL		NVTFS021N10MCL		
~ 25 mΩ								NVTYS027N10MCL	
27 mΩ			NVMFS027N10MCL	NVMFD027N10MCL	NVMYS027N10MCL NVMJD027N10MCL		NVTFS027N10MCL		
~ 30 mΩ									
~ 35 mΩ									NVLJS036N10MCL
~ 40 mΩ			NVMFS040N10MCL	NVMFD040N10MCL	NVMYS040N10MCL		NVTFS040N10MCL	NVYFS040N10MCL	NVLJS038N10MC
70 mΩ							NVTFS070N10MCL		

Released  
In Development  
L (on last digits): Logic Level device

Engineering Sample available  
Planning

# Automotive MV MOSFET – 120V & 150V

Released  
In Development  
L (on last digits): Logic Level device

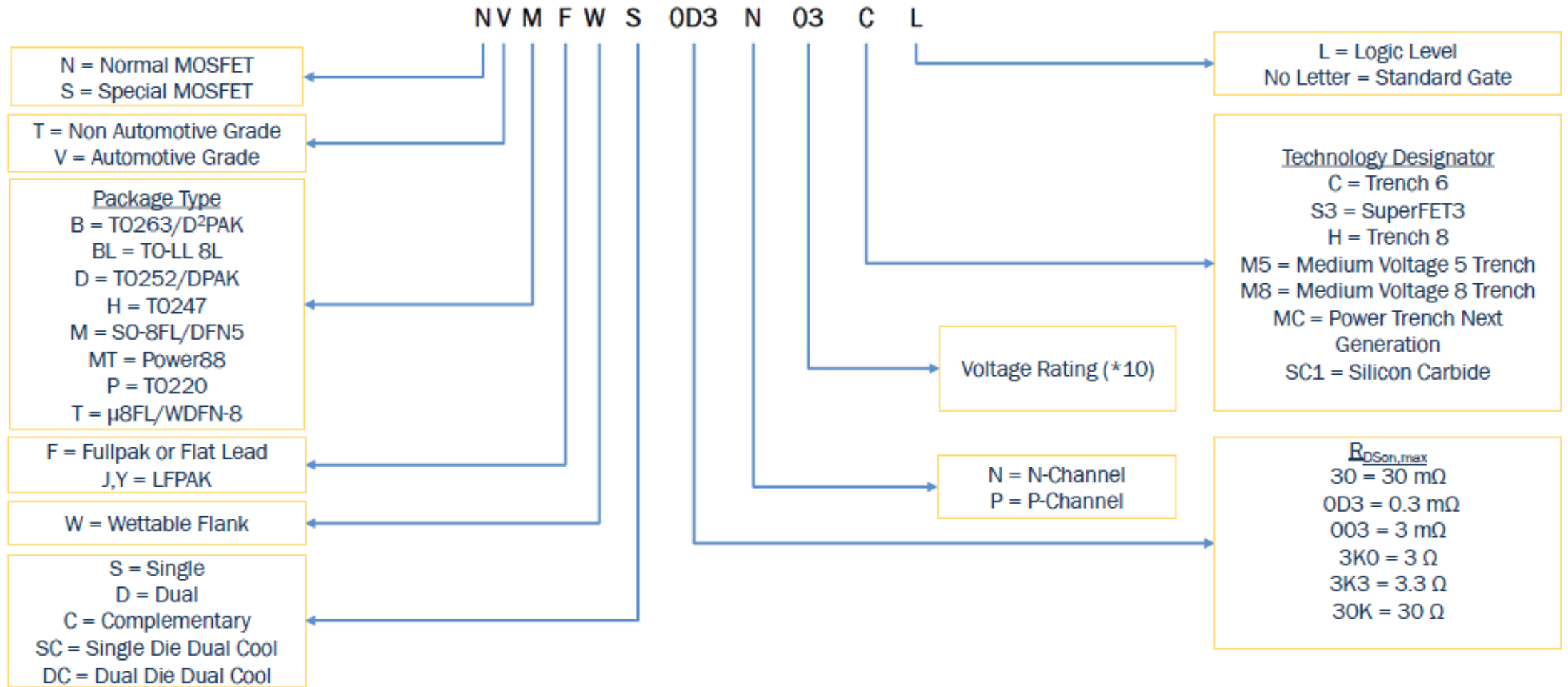
Engineering Sample available  
Planning

PKG	D2PAK-7	D2PAK-3	TOLL	PWR88	PWR88 Dual Cool	PWR22
RDS(on)						
4 mΩ			NVBLS4D0N15MC			
4.1 mΩ	NVBGS4D1N15MC					
4.3 mΩ				NVMTS4D3N15MC	NVMTSC4D3N15MC	
6 mΩ				NVMTS6D0N15MC		
6.3 mΩ			FDBL86210-F085			
6.5 mΩ	NVBGS6D5N15MC					
15 mΩ		NVDS015N15MC				
22 mΩ		FDD86250-F085				
53 mΩ						NVLJS053N12MCL
54 mΩ		FDD2572-F085				

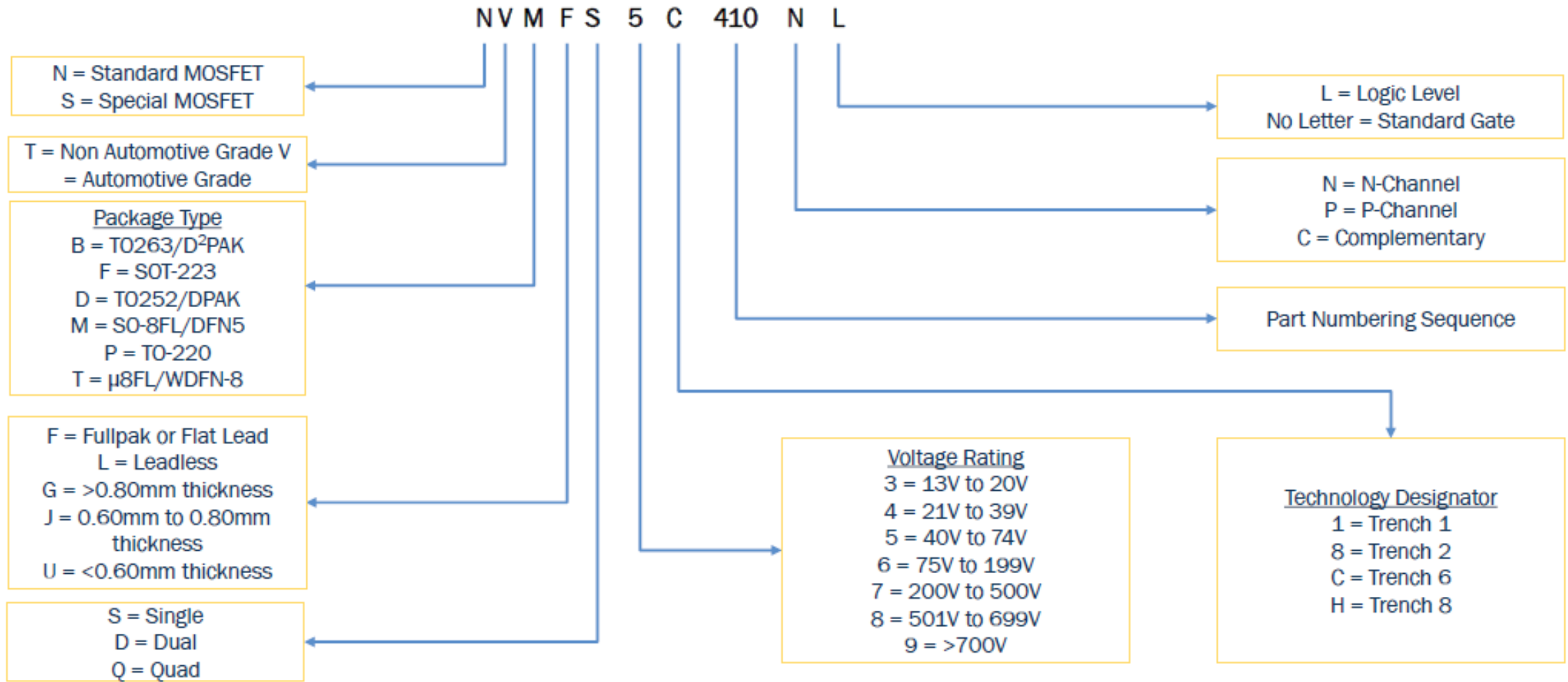




# MOSFETs Nomenclature



# MOSFETs Nomenclature



# MOSFETs Nomenclature

Example: Auto-SO8-Flat lead-Wettable Flank-Single-0.3 mohm-NCh-30V-T6-Logic Level

W⇒Wettable Flank  
 C = T6  
 X = T10  
 XM = T10M  
 XL = T10/LL  
 XML = T10M/LL

**N V M F W S 0D3 N 03 C L**

- ON MOSFETs N = Normal MOSFET, S = Special
- ON MOSFETs T = Non Auto, V = Auto
- Package Name: See Updated Package Name Table
- Package Descriptor 1
- Package Descriptor 2
- Package Descriptor 3

**Technology Option**  
 Logic Level = L  
 No Letter = Std Gate

**Technology Designator: See Updated Table**

**Voltage Rating ( x 10)**

**Channel Polarity**  
 N: N-Channel      P: P-Channel

**R<sub>DS(ON)</sub> Max. (mΩ) 3digits**  
 Examples:  
 30 = 30m ohm  
 0D3 = 0.3m ohm  
 003 = 3m ohm  
 2K0 = 2 ohm  
 5K5 = 5.5 ohm  
 10K = 10 ohm .. Small Signal

