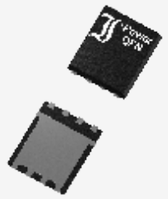
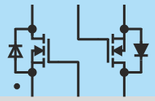
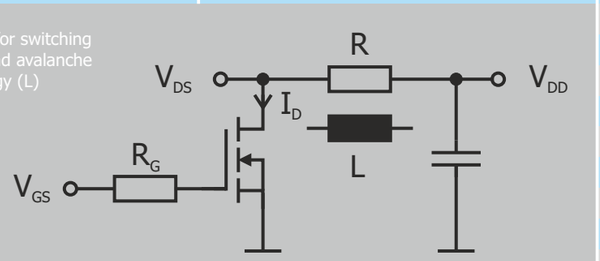
L x W [mm]	2.0 x 2.0	3.35 x 3.3		5.0 x 6.0	5.0 x 6.0	6.6 x 6	8.7 x 10.1	8.4 x 10.1	L x W [mm]
Diotec Semiconductor	**QFN2x2**	**QFN3x3**		**QFN5x6** ~TDSON-8	**QFN5x6-2** ~TDSON-8-4	**TO-252** D-PAK	**TO-220AB**	**ITO-220AB**	Diotec Semiconductor
Power									Power
	Raster 0.65	Raster 0.65		Raster 1.27	Raster 1.27	Raster 2.3	Raster 2.54	Raster 2.54	
	N channel	**N channel**	**P channel**	**N channel**	**2x N channel**	**N channel**	**N channel**		
									
V_{DS}									V_{DS}
I_D	**10 A**	**40 A**	**-28 A**	**68 A**		**30 A**	**150 A**		I_D
30	DI010N03PW	DI040N03PT	DI028P03PT	DI068N03PQ		DI030N03D1	DIT150N03		**30**
		45 A		**80 A**					
		DI045N03PT		DI080N03PQ					
				110 A					
				DI110N03PQ					
				150 A					
				DI150N03PQ					
		50 A	**-35 A**	**110 A**					
40		DI050N04PT	DI035P04PT	DI110N04PQ					**40**
					2x 38 A				
45					DI038N04PQ2				**45**
				80 A		**20 A**	**50 A**		
60				DI080N06PQ		DI020N06D1	DIT050N06		**60**
							90 A		
							DIT090N06		
							95 A		
80							DIT095N08		**80**
							120 A		
							DIT120N08		
							195 A		
							DIT195N08		
		35 A		**45 A**			**100 A**		
100		DI035N10PT		DI045N10PQ			DIT100N10		**100**
				100 A					
				DI100N10PQ					
				110 A					
150				DI110N15PQ					**150**
						15 A			
250						DI015N25D1			**250**
[V]									**[V]**
						NPN **PNP**		**NPN**	
V_{CEO}									V_{CEO}
I_C						**-5 A**		I_C	
50						2SA1012R			**50**
								4 A	
60								2SC3851	**60**
						1.5 A			
160						2SC2983			**160**
[V]									**[V]**

Bipolar Transistors

MOSFETs

Test circuit for switching times (R) and avalanche energy (L)



Nomenclature Power MOSFETs:

DI X iii C vv YY

DI	=	Diotec
X	=	T - TO-220AB
iii	=	$I_{D(25°C)}$ in A
C	=	N or P channel
vv	=	V_{DSS}/10 in V
YY	=	D1 - D-PAK
		PQ - QFN5x6
		PT - QFN3x3
		PW - QFN2x2

Some products are also available as **AEC-Q101** qualified parts (suffix -AQ). For further information please contact automotive@diotec.com

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