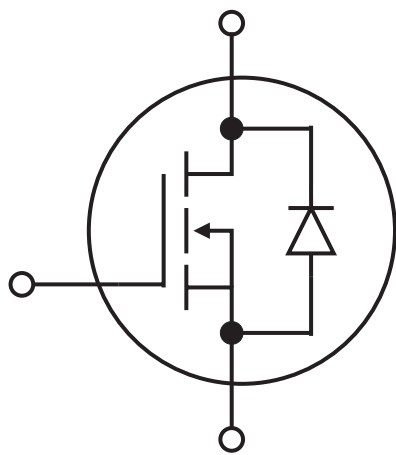




**Diotec**  
Semiconductor



# (POWER) MOSFETS



## Using Advanced Trench Technology

### Features/Benefits

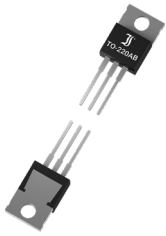
- › Advanced Trench Technology
- › Low on-state Resistance
- › Fast Switching Times
- › Low Gate Charge
- › Avalanche rated

### Applications

- › DC/DC Converter
- › Power Supplies
- › DC Drives
- › Power Tools
- › Power Factor Correction

# Energy saving by low $R_{DS(on)}$ and fast switching times

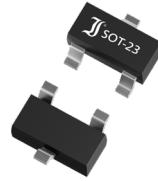
TO-220AB



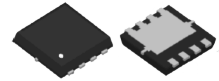
TO-92



SOT-23



Power QFN-3x3



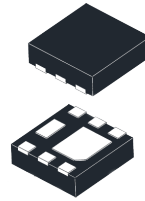
D-PAK



Power QFN-5x6



Power QFN-2x2



## (POWER) MOSFETs Product Range in TO-220AB, D-PAK, SOT-23 and QFN Packages

Partnumber	$I_D$ [A]	$V_{DS}$ [V]	$R_{DS(on)}$ [m $\Omega$ ]	$P_{tot}$ [W]	$E_{AS}$ [mJ]	Package
DIT195N08	195	85	4,1	300	1800	TO-220AB
DI100N10PQ	100	100	4,1	250	270	PowerQFN 5x6
DIT120N08	120	80	4,9	220	800	TO-220AB
DIT100N10	100	100	9,9	200	800	TO-220AB
DIT095N08	95	80	6,6	170	529	TO-220AB
DIT090N06	90	65	5,7	160	450	TO-220AB
DI015N25D1	15	250	245	140	80	TO-252AA/D-PAK
DIT150N03	150	30	2,3	130	1700	TO-220AB
DI012N60D1	12	600	220	130	265	TO-252AA/D-PAK
DI045N10PQ-Q	45	100	5,5	110	39	PowerQFN 5x6
DI150N03PQ	150	30	1,4	86	150	PowerQFN 5x6
DIT050N06	50	60	14	85	245	TO-220AB
DI080N06PQ	80	60	3	80	240	PowerQFN 5x6
DI080N03PQ	80	30	1,5	78	150	PowerQFN 5x6
DI110N15PQ	110	150	8,8	56	340	PowerQFN 5x6
DI110N03PQ	110	30	2,2	56	64	PowerQFN 5x6
DI020N06D1	20	60	24	45	72	TO-252AA/D-PAK
DI110N04PQ-AQ	110	40	1,9	42	tbd	PowerQFN 5x6
DI110N04PQ	110	40	1,9	42	tbd	PowerQFN 5x6
DI030N03D1	30	30	10	40	72	TO-252AA/D-PAK
DI028P03PT	28	30	6,7	40	N/A	PowerQFN 3x3
DI050N04PT	50	40	6,5	37	100	PowerQFN 3x3
DI050N04PT-AQ	50	40	6,5	37	100	PowerQFN 3x3

Partnumber	$I_D$ [A]	$V_{DS}$ [V]	$R_{DS(on)}$ [m $\Omega$ ]	$P_{tot}$ [W]	$E_{AS}$ [mJ]	Package
DI038N04PQ2	38	45	10	31	36	PowerQFN 5x6
DI038N04PQ2-AQ	38	45	10	31	36	PowerQFN 5x6
DI048N04PQ2-AQ	48	40	8	28	45	PowerQFN 5x6
DI068N03PQ-AQ	68	30	3	25	80	PowerQFN 5x6
DI040N03PT-AQ	40	30	6	25	100	PowerQFN 3x3
DI035N10PT-AQ	35	100	14	25	29	PowerQFN 3x3
DI035N10PT	35	100	14	25	29	PowerQFN 3x3
DI035P04PT	35	40	15	25	54	PowerQFN 3x3
DI045N03PT-AQ	45	30	3,4	16	55	PowerQFN 3x3
DI045N03PT	45	30	3,4	16	55	PowerQFN 3x3
DI010N03PW-AQ	10	30	12	1,4	20	PowerQFN 2x2
MMFTP3401	4	30	65	1	N/A	SOT-23
MMFTN3402	4	30	55	1	N/A	SOT-23
MMFTN6001	0,44	60	2000	0,53	N/A	SOT-23
MMFTN138	0,22	50	3500	0,36	N/A	SOT-23
MMFTN138-Q	0,22	50	3500	0,36	N/A	SOT-23
MMFTN123	0,17	100	6000	0,36	N/A	SOT-23
MMBT7002K-Q	0,3	60	3000	0,35	N/A	SOT-23
MMBT7002K	0,3	60	3000	0,35	N/A	SOT-23
MMBT7002K-AQ	0,3	60	3000	0,35	N/A	SOT-23
2N7002A	0,28	60	2000	0,35	N/A	SOT-23
2N7002	0,28	60	5000	0,35	N/A	SOT-23
2N7000	0,2	60	5000	0,35	N/A	TO-92
MMFTN170	0,5	60	5000	0,3	N/A	SOT-23
MMFTN20	0,1	50	15000	0,3	N/A	SOT-23
MMFTP84	0,13	60	10000	0,25	N/A	SOT-23
2N7002W	0,12	60	13500	0,2	N/A	SOT-323
MMBT7002DW	0,12	60	7500	0,2	N/A	SOT-363
MMFTN3018W	0,1	30	8000	0,2	N/A	SOT-323

