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Fig.	V _{DS} (V)	I _D (A)	R _{DS(on)} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 100	Tape and Reel Pricing*	Mfg. Part No.
N-Channel							
TO-220							
30	40	0.022	497-3187-5-ND†	2.55	21.25	178.50	—
30	80	0.0045	497-4386-5-ND†	1.80	15.00	126.00	—
30	80	0.004	497-2676-5-ND†	2.97	25.85	192.50	—
40	120	0.0037	497-3524-5-ND†	3.78	32.90	245.00	—
40	120	0.0038	497-4819-5-ND†	2.97	24.75	207.90	—
55	80	0.0065	497-2774-5-ND†	2.31	19.25	161.70	—
55	80	0.008	497-3202-5-ND†	3.11	27.03	201.25	—
55	80	0.008	497-4370-5-ND†	2.35	19.55	164.22	—
60	16	0.1	497-2766-5-ND†	.86	6.84	47.50	—
60	16	0.09	497-2765-5-ND†	.94	8.13	62.50	—
60	20	0.07	497-4374-5-ND†	1.12	9.72	74.75	—
60	20	0.07	497-4375-5-ND†	1.12	9.72	74.75	—
60	30	0.040	497-3186-5-ND†	1.50	13.00	100.00	—
60	38	0.028	497-3189-5-ND†	1.61	13.98	107.50	—
60	50	0.018	497-2777-5-ND†	1.35	11.70	90.00	—
60	60	0.016	497-2779-5-ND†	1.86	16.09	123.75	—
60	80	0.010	497-3201-5-ND†	2.94	24.50	205.80	—
75	80	0.011	497-2788-5-ND†	2.10	17.50	147.00	—
100	26	0.060	497-3185-5-ND†	1.65	14.30	110.00	—
100	40	0.035	497-2645-5-ND†	1.54	13.33	102.50	—
100	50	0.028	497-3188-5-ND†	3.11	27.03	201.25	—
100	80	0.023	497-4384-5-ND†	2.55	21.25	178.50	—
100	80	0.015	497-2642-5-ND†	2.79	23.25	195.30	—
100	120	0.0105	497-4118-5-ND†	2.88	24.00	201.60	—
120	40	0.032	497-4381-5-ND†	1.73	14.38	120.75	—
200	6	0.8	497-3135-ND†	1.08	8.64	64.80	—
200	9	0.40	497-2757-5-ND†	1.13	9.75	75.00	—
200	18	0.18	497-2759-5-ND†	1.69	14.63	112.50	—
200	18	0.125	497-4373-5-ND†	1.56	13.00	109.20	—
200	19	0.18	497-2650-5-ND†	1.80	15.00	126.00	—
200	40	0.045	497-4380-5-ND†	2.93	24.45	205.38	—
250	16	0.28	497-3183-5-ND†	1.95	16.25	136.50	—
400	4.7	1.8	497-2675-5-ND†	2.79	23.25	195.30	—
400	5.4	1	497-3200-5-ND†	1.43	12.35	95.00	—
400	5.5	1	497-2736-5-ND†	1.16	10.08	77.50	—
400	10	0.55	497-2931-5-ND†	2.31	19.25	161.70	—
500	3	2.7	497-3190-5-ND†	1.05	9.10	70.00	—
500	4.4	1.5	497-3195-5-ND†	1.09	9.43	72.50	—
500	5.6	1.2	497-4385-5-ND†	1.20	10.40	80.00	—
500	7.2	0.85	497-3203-5-ND†	1.69	14.63	112.50	—
500	9	0.7	497-4671-5-ND†	1.80	15.00	126.00	—
500	11	0.38	497-4818-5-ND†	3.38	29.38	218.75	—
500	12	0.35	497-2666-5-ND†	4.73	41.13	306.25	—
500	14	0.38	497-4526-5-ND†	3.24	28.20	210.00	—
500	18	0.19	497-4820-5-ND†	5.00	43.48	323.75	—
500	20	0.25	497-2663-5-ND†	5.40	47.00	350.00	—
500	22	0.14	497-4672-5-ND†	6.08	52.88	393.75	—
600	1.4	8	497-4377-5-ND†	.90	7.20	54.00	—

Fig.	V _{DS} (V)	I _D (A)	R _{DS(on)} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 100	Tape and Reel Pricing*	Mfg. Part No.
TO-220							
600	4	2	497-3191-5-ND†	1.24	10.73	82.50	—
600	5	1.6	497-3196-5-ND†	1.43	12.35	95.00	—
600	6	1.2	497-3198-5-ND†	1.65	14.30	110.00	—
600	7	0.95	497-4387-5-ND†	1.95	16.25	136.50	—
600	10	0.64	497-4817-5-ND†	1.75	14.58	122.43	—
600	10	0.75	497-4117-5-ND†	2.64	22.00	184.80	—
600	11	0.45	497-2773-5-ND†	3.70	32.20	239.75	—
600	11	0.45	497-4368-5-ND†	3.51	30.55	227.50	—
600	11	0.45	497-3180-5-ND†	5.27	45.83	341.25	—
600	13	0.55	497-3182-5-ND†	3.24	28.20	210.00	—
600	14	0.42	497-4372-5-ND†	2.25	18.75	157.50	—
600	17	0.24	497-5019-5-ND†	5.51	47.94	357.00	—
600	20	0.17	497-5020-5-ND†	6.70	58.28	434.00	—
650	13	0.5	497-4119-5-ND†	2.64	22.00	184.80	—
650	20	0.29	497-3184-5-ND†	5.40	47.00	350.00	—
650	20	0.29	497-4376-5-ND†	5.94	51.70	385.00	—
800	2.5	4.5	497-4379-5-ND†	1.17	10.11	77.75	—
800	3	3.5	497-3192-5-ND†	1.43	12.35	95.00	—
800	11	0.4	497-4369-5-ND†	6.44	58.80	464.80	—
900	2.1	6.5	497-4378-5-ND†	1.08	9.36	72.00	—
900	4.5	2.5	497-4383-5-ND†	1.65	13.75	115.50	—
900	5.8	2	497-3199-5-ND†	2.16	18.00	151.20	—
900	8	1.3	497-2785-5-ND†	2.58	21.50	180.60	—
1000	3	6	497-2641-5-ND†	2.16	18.00	151.20	—
1000	3.5	3.7	497-4382-5-ND†	2.69	22.43	188.37	—
1000	6.5	1.85	497-5021-5-ND†	3.65	31.73	236.25	—
TO-247							
60	80	0.010	497-3266-5-ND†	2.64	22.00	184.80	—
200	34	0.075	497-2659-5-ND†	3.78	32.90	245.00	—
200	40	0.045	497-4427-5-ND†	3.11	27.03	201.25	—
250	52	0.045	497-4428-5-ND†	4.66	40.54	301.88	—
500	14	0.34	497-3260-5-ND†	2.76	23.00	193.20	—
500	14	0.38	497-3258-5-ND†	3.78	32.90	245.00	—
500	17	0.27	497-3261-5-ND†	3.11	27.03	201.25	—
500	18	0.19	497-4806-5-ND†	5.27	45.83	341.25	—
500	20	0.25	497-2717-5-ND†	5.75	52.50	415.00	—
500	22	0.14	497-4675-5-ND†	6.35	55.23	411.25	—
500	30	0.120	497-3264-5-ND†	9.20	84.00	664.00	—
500	31	0.13	497-4425-5-ND†	6.90	63.00	498.00	—
500	45	0.1	497-2760-5-ND†	11.39	103.95	821.70	—
500	45	0.1	497-2718-5-ND†	11.00	101.75	770.00	—
550	14	0.35	497-3259-5-ND†	5.54	48.18	358.75	—
550	20	0.25	497-3262-5-ND†	5.40	47.00	350.00	—
600	10	0.75	497-3253-5-ND†	4.05	35.25	262.50	—
600	13	0.55	497-3257-5-ND†	3.78	32.90	245.00	—
600	14	0.42	497-3558-5-ND†	3.51	30.55	227.50	—
600	16	0.36	497-4422-5-ND†	4.59	39.95	297.50	—
600	17	0.24	497-5024-5-ND†	5.81	50.53	376.25	—
600	20	0.17	497-5025-5-ND†	5.96	54.39	429.94	—
600	27	0.185	497-4424-5-ND†	6.90	63.00	498.00	—

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging ‡ Tube packaging

(Continued)

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MOSFETs (Cont.)

Fig.	VDSS (V)	IG (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 100	Tape and Reel Pricing *	Mfg. Part No.
2B	600	30	0.135	497-3265-5-ND†	9.20 84.00 664.00	—	STW26NM60
	600	30	0.145	497-4426-5-ND†	9.78 89.25 705.50	—	STW30NM60D
	600	45	0.11	497-2768-5-ND†	10.00 92.50 700.00	—	STW45NM60
	650	20	0.29	497-3263-5-ND†	5.98 54.60 431.60	—	STW20NM60
	700	20	0.285	497-3559-5-ND†	5.27 45.83 341.25	—	STW20NK70Z
	800	9	0.90	497-3254-5-ND†	2.92 25.38 189.00	—	STW10NK80Z
	800	10.5	0.75	497-3256-5-ND†	5.40 47.00 350.00	—	STW12NK80Z
	800	11	0.4	497-4420-5-ND†	6.48 56.40 420.00	—	STW11NM80
	900	19	0.38	497-4423-5-ND†	5.59 48.65 362.25	—	STW18NK80Z
	900	8	1.3	497-2784-5-ND†	2.94 24.50 205.80	—	STW9NK90Z
3B	900	11	0.88	497-4421-5-ND†	4.21 36.66 273.00	—	STW12NK90Z
	900	15	0.55	497-3557-5-ND†	6.67 60.90 481.40	—	STW15NK90Z
	1000	8.3	1.38	497-3255-5-ND†	5.67 49.35 367.50	—	STW11NK100Z
	1000	13	0.70	497-3556-5-ND†	5.75 52.50 415.00	—	STW13NK100Z
D²PAK							
4B	24	75	0.008	497-3515-1-ND	1.95 16.25 136.50	878.00/1,000	STB75NH02LT4
	40	120	0.0037	497-3513-1-ND	3.38 29.38 218.75	1663.00/1,000	STB200NF04T4
	55	80	0.008	497-3737-1-ND	2.37 19.75 165.90	1067.00/1,000	STB80NF55-08T4
	55	80	0.008	497-4321-1-ND	2.93 24.45 205.38	1320.00/1,000	STB140NF55T4
	60	16	0.09	497-4322-1-ND	1.04 8.97 69.00	400.00/1,000	STB16NF06LT4
	75	75	0.011	497-3514-1-ND	2.55 21.25 178.50	1148.00/1,000	STB75NF75LT4
	100	40	0.033	497-3736-1-ND	2.40 20.00 168.00	1080.00/1,000	STB40NF10LT4
	100	80	0.015	497-2489-1-ND	2.97 24.75 207.90	1337.00/1,000	STB80NF10T4
	100	120	0.0105	497-2452-1-ND	2.81 24.44 182.00	1383.00/1,000	STB120NF10T4
	200	40	0.045	497-4765-1-ND	2.08 17.33 145.53	936.00/1,000	STB40N20
5A	500	4.4	1.5	497-4324-1-ND	1.25 10.86 83.50	484.00/1,000	STB5NK50ZT4
	500	10	0.52	497-2451-1-ND	1.89 15.75 132.30	851.00/1,000	STB11NK50ZT4
	500	17	0.27	497-4323-1-ND	2.84 24.68 183.75	1397.00/1,000	STB20NK50ZT4
	600	4	2	497-2486-1-ND	1.39 12.03 92.50	537.00/1,000	STBANK60ZT4
	600	7	0.95	497-4325-1-ND	2.07 17.25 144.90	932.00/1,000	STB9NK60ZD74
	600	11	0.45	497-3511-1-ND	5.40 47.00 350.00	2660.00/1,000	STB11NM60FD74
	600	17	0.24	497-5002-1-ND	5.64 49.12 365.75	2780.00/1,000	STB21NM60N
	600	20	0.17	497-5003-1-ND	5.82 53.13 419.98	3226.00/1,000	STB25NM60N
	800	10.5	0.75	497-4320-1-ND	3.19 27.73 206.50	1569.00/1,000	STB12NK80ZT4
	800	11	0.4	497-4319-1-ND	6.44 58.80 464.80	3570.00/1,000	STB11NM80T4
DPAK							
6A	24	38	0.0135	497-3160-1-ND	1.80 15.00 126.00	1950.00/2,500	STD38NH02LT4
	24	40	0.011	497-4104-1-ND	1.43 12.35 95.00	1262.50/2,500	STD55NH2LLT4
	24	60	0.008	497-3165-1-ND	1.50 13.00 100.00	1330.00/2,500	STD70NH02LT4
	24	60	0.0048	497-4100-1-ND	2.16 18.00 151.20	2340.00/2,500	STD100NH02LT4
	24	80	0.005	497-4105-1-ND	2.34 19.50 163.80	2535.00/2,500	STD95NH02LT4
	30	17	0.05	497-3155-1-ND	1.16 10.08 77.50	1030.00/2,500	STD17NF03LT4
	30	30	0.025	497-3157-1-ND	1.95 16.25 136.50	2112.50/2,500	STD30NF03LT4
	30	35	0.0195	497-2475-1-ND	1.50 13.00 100.00	1330.00/2,500	STD35NF3LLT4
	30	60	0.0095	497-2476-1-ND	1.84 15.93 122.50	1630.00/2,500	STD60NF3LLT4
	30	80	0.0055	497-4749-1-ND	1.65 13.75 115.50	1787.50/2,500	STD100NF03LT4
7A	60	12	0.1	497-2487-1-ND	.81 6.48 45.00	642.50/2,500	STD12NF06LT4
	60	12	0.1	497-3154-1-ND	.94 8.13 62.50	832.50/2,500	STD12NF06T4
	60	24	0.07	497-4329-1-ND	1.04 8.97 69.00	917.50/2,500	STD16NF06LT4
	60	35	0.028	497-4101-1-ND	1.31 11.38 87.50	1165.00/2,500	STD30NF06LT4
	60	35	0.024	497-3159-1-ND	1.58 13.65 105.00	1397.50/2,500	STD35NF06T4
	75	40	0.024	497-4334-1-ND	1.50 13.00 100.00	1330.00/2,500	STD45NF75T4
	100	13	0.13	497-3153-1-ND	1.20 10.40 80.00	1065.00/2,500	STD10NF10T4
	100	25	0.035	497-3156-1-ND	1.50 12.50 105.00	1625.00/2,500	STD25NF10LT4
	200	5	0.7	497-4335-1-ND	1.05 9.10 70.00	930.00/2,500	STD5N20LT4
	200	18	0.125	497-4330-1-ND	1.81 15.70 120.75	1605.00/2,500	STD20N20T4
8A	200	22	0.105	497-4653-1-ND	3.11 27.03 201.25	3680.00/2,500	STD22NM20N4
	400	3	1.8	497-2477-1-ND	1.05 9.10 70.00	930.00/2,500	STD5NK40ZT4
	500	2.3	3.3	497-4333-1-ND	1.64 14.20 109.25	1452.50/2,500	STD3NK50ZT4
	500	3	2.7	497-4103-1-ND	.98 8.45 65.00	865.00/2,500	STD4NK50ZT4
	500	4.4	1.5	497-3520-1-ND	1.09 9.43 72.50	1052.50/2,500	STD5NK50ZT4
	500	7.5	0.8	497-3162-1-ND	2.85 23.75 199.50	3087.50/2,500	STD5NM50T4
	600	1	8.5	497-2483-1-ND	1.04 8.28 62.10	820.00/2,500	STD1NK60T4
	600	2	5	497-2485-1-ND	1.05 9.10 70.00	930.00/2,500	STD1HNK60T4
	600	2.4	3.6	497-4102-1-ND	.98 8.45 65.00	865.00/2,500	STD3NK60ZT4
	600	3	1.5	497-3161-1-ND	1.50 13.00 100.00	1330.00/2,500	STD3NM60T4
9A	600	5	1	497-3163-1-ND	2.70 22.50 189.00	2925.00/2,500	STD5NM60T4
	700	1.6	7	497-4331-1-ND	1.51 13.10 100.75	1340.00/2,500	STD2NK70ZT4
	800	1.0	16	497-4751-1-ND	.99 7.92 59.40	785.00/2,500	STD1NK80ZT4
	900	2.1	6.5	497-4332-1-ND	1.51 13.10 100.75	1340.00/2,500	STD2NK90ZT4
ISOTOP							
10A	100	180	.006	497-3166-5-ND†	47.25 405.00 3591.00	—	STE180NE10
	100	220	.0055	497-3167-5-ND†	35.00 300.00 2660.00	—	STE250NS10
	200	110	0.024	497-2657-5-ND†	35.00 300.00 2660.00	—	STE110NS20FD
	500	53	0.08	497-2776-5-ND†	30.63 262.50 2327.50	—	STE53NC50
	500	70	0.05	497-3172-5-ND†	42.00 360.00 3192.00	—	STE70NM50
	550	48	0.1	497-3170-5-ND†	26.25 225.00 1995.00	—	STE48NM50
	600	40	0.13	497-3169-5-ND†	30.63 262.50 2327.50	—	STE40NC60
	600	70	0.055	497-3173-5-ND†	42.00 360.00 3192.00	—	STE70NM60
	900	28	0.26	497-4336-5-ND†	38.50 330.00 2926.00	—	STE30NK90Z
	900	40	0.18	497-4337-5-ND†	52.50 450.00 3990.00	—	STE40NK90ZD

Fig.	VDSS (V)	Id (A)	Rgs(on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 100			Tape and Reel Pricing*	Mfg. Part No.
TO-220FP									
6B	60	20	0.07	497-4340-5-ND†	.93	7.45	55.89	—	STF20NF06
	60	23	0.028	497-4343-5-ND†	1.58	13.65	105.00	—	STF40NF06
	60	37	0.016	497-3197-5-ND†	2.40	20.00	168.00	—	STP60NF06FP
	60	50	0.018	497-3193-5-ND†	2.10	17.50	147.00	—	STP55NF06FP
	200	18	0.125	497-4339-5-ND†	1.56	13.00	109.20	—	STF20N20
	200	40	0.045	497-5006-5-ND†	2.70	22.50	189.00	—	STF40N20
	500	9	0.7	497-4654-5-ND†	1.65	13.75	115.50	—	STF10NK50Z
	500	11	0.38	497-4804-5-ND†	3.51	30.55	227.50	—	STF12NM50N
	500	12	0.35	497-2665-5-ND†	4.32	37.60	280.00	—	STP12NM50FP
	500	18	0.19	497-4803-5-ND†	5.13	44.65	332.50	—	STF21NM50N
	500	22	0.14	497-4655-5-ND†	6.21	54.05	402.50	—	STF25NM50N
	600	7	0.95	497-4346-5-ND†	2.14	17.83	149.73	—	STF9NK60ZD
	600	10	0.64	497-4808-5-ND†	1.78	14.85	124.74	—	STF12NK60Z
	600	17	0.24	497-5004-5-ND†	5.64	49.12	365.75	—	STF21NM60N
	600	20	0.17	497-5005-5-ND†	5.82	53.13	419.98	—	STF25NM60N
	650	11	0.45	497-3181-5-ND†	5.27	45.83	341.25	—	STP11NM60FP
	650	20	0.29	497-2771-5-ND†	5.67	49.35	367.50	—	STP20NM60FP
	800	2.5	4.5	497-4342-5-ND†	1.29	11.21	86.25	—	STF21NK80Z
	800	11	0.40	497-4338-5-ND†	3.24	28.20	210.00	—	STF11NM80
	900	3	4.2	497-4341-5-ND†	1.38	11.96	92.00	—	STF3HNK90Z
1000	3.5	3.7	497-4344-5-ND†	2.49	20.75	174.30	—	STF5NK100Z	
1000	6.5	1.85	497-5007-5-ND†	2.84	24.68	183.75	—	STF8NK100Z	
8-SOIC									
8B	30	9	0.020	497-3234-1-ND	1.65	14.30	110.00	1462.50/2,500	STS9NF30L
	30	11	0.0105	497-4121-1-ND	1.08	8.64	64.80	855.00/2,500	STS11NF30L
	30	12	0.0105	497-4122-1-ND	1.50	13.00	100.00	1330.00/2,500	STS12NH3LL
	30	12	0.009	497-3223-1-ND	1.83	15.25	128.10	1982.50/2,500	STS12NF30L
	30	12	0.0105	497-4755-1-ND	1.44	12.51	96.25	1280.00/2,500	STSJ50NH3LL
	30	17	0.0055	497-3224-1-ND	2.40	20.00	168.00	2600.00/2,500	STS17NF3LL
	30	25	0.0035	497-2474-1-ND	1.65	13.75	115.50	1787.50/2,500	STS25NH3LL
	55	24	0.035	497-3317-1-ND	2.28	19.00	159.60	2470.00/2,500	VNS14NV0413TR
60	7.5	0.0195	497-4757-1-ND	1.28	11.08	85.25	1135.00/2,500	STS7NF60L	
8C	30	4	0.055	497-3227-1-ND	1.50	12.50	105.00	1625.00/2,500	STS4DNFS30L
8D	600	0.3	8.5	497-3530-1-ND	1.05	9.10	70.00	930.00/2,500	STS1HNK60
Max247									
7	100	140	0.011	497-3267-5-ND‡	13.00	120.25	910.00	—	STY140NS10
	300	60	0.045	497-4432-5-ND‡	7.29	66.57	526.22	—	STY60NK30Z
	500	60	0.05	497-2775-5-ND‡	17.00	157.25	1190.00	—	STY60NM50
	600	60	0.055	497-3268-5-ND‡	18.00	166.50	1260.00	—	STY60NM60
	900	28	0.26	497-4431-5-ND‡	13.80	127.65	966.00	—	STY30NK90Z
SOT23-3L									
9	60	0.20	5	497-3111-1-ND	.52	4.00	28.80	408.00/3,000	2N7002
TO-92									
10	60	0.35	5	497-3110-ND†	.52	4.00	28.80	—	2N7000
IPAK TO-251									
11	24	50	0.0105	497-3519-5-ND‡	1.50	13.00	100.00	—	STD50NH02L-1
	30	60	0.009	497-3164-5-ND‡	1.35	11.70	90.00	—	STD60NH03L-1
PowerSO-10									
14	20	160	0.0025	497-3251-1-ND	6.48	56.40	420.00	2016.00/600	STV160NF02L
	30	160	0.0028	497-3251-1-ND	5.75	52.50	415.00	1950.00/600	STV160NF03L
SOT-223									
13	30	6.5	0.05	497-4525-1-ND	1.50	13.00	100.00	2128.00/4,000	STN4NF03L
	60	4	0.1	497-3177-1-ND	1.13	9.75	75.00	1596.00/4,000	STN3NF06L
	60	4	0.1	497-4764-1-ND	.74	5.94	44.55	940.00/4,000	STN3NF06
	200	1	1.5	497-3176-1-ND	1.84	15.93	122.50	2608.00/4,000	STN1N20
	600	0.25	15	497-3523-1-ND	.72	5.76	43.20	912.00/4,000	STN1NK60Z
	600	0.4	8.5	497-4668-1-ND	1.04	8.28	62.10	1312.00/4,000	STN1HNK60
	800	0.25	16	497-4669-1-ND	1.01	8.78	67.50	1436.00/4,000	STN1HNK80Z
TSSOP-8									
15	30	5	0.031	497-4327-1-ND	.72	5.80	43.47	916.00/4,000	STC5NF30V
i²PAK									
16	40	120	0.0037	497-3512-5-ND‡	2.40	20.00	168.00	—	STB20NM04-1
PowerFLAT™ (6 x 5)									
17	30	27	0.013	497-4114-1-ND	1.80	15.60	120.00	1914.00/3,000	STL50NH3LL
	200	20	0.105	497-4657-1-ND	3.11	27.03	201.25	1530.00/1,000	STL20NM20N
PowerFLAT™ (3.3 x 3.3)									
18	30	8	0.015	497-4115-1-ND	1.58	13.65	105.00	1677.00/3,000	STL8NH3LL
ClipPak™									
19	24	150	0.0035	497-4750-1-ND	1.82	15.13	127.05	1967.50/2,500	STD150NH02LT4
Dual N-Channel									
TSSOP-8									
15	20	5	0.045	497-3151-1-ND	.90	7.20	54.00	1140.00/4,000	STC5NF20V
	30	6	0.030	497-3152-1-ND	1.50	13.00	100.00	2128.00/4,000	STC6NF30V
8-SOIC									
8A	20	5	0.045	497-3229-1-ND	1.80	15.00	126.00	1950.00/2,500	STSD5NF20V
	30	8	0.022	497-4399-1-ND	1.39	12.03	92.50	1230.00/2,500	STSD8NH3LL

Fig.	V _{DS} (V)	I _D (A)	R _{DS(on)} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 100	Tape and Reel Pricing*	Mfg. Part No.
P-Channel							
TO-220							
8A	30	8	0.020	497-2470-1-ND	1.31 11.38 87.50	1247.50/2,500	STS8DNF3LL
	60	4	0.055	497-3226-1-ND	2.10 17.50 147.00	2275.00/2,500	STS4DNF60L
D²PAK							
3B	60	16	0.125	497-4099-1-ND	1.28 11.05 85.00	493.00/1,000	STB16PF06LT4
8-SOIC							
1B	60	12	0.20	497-2721-5-ND†	.84 6.73 50.49	—	STP12PF06
	55	80	0.018	497-2729-5-ND†	2.46 20.50 172.20	—	STP80PF55
DPAK							
4B	30	24	0.028	497-3158-1-ND	1.76 15.28 117.50	1562.50/2,500	STD30PF03LT4
	60	10	0.20	497-2456-1-ND	1.08 8.64 64.80	855.00/2,500	STD10PF06T4
8-SOIC							
8A	20	5	0.055	497-4758-1-ND	1.57 13.59 104.50	1390.00/2,500	STS5DPF20L
8B	20	5	0.10	497-3230-1-ND	1.08 8.64 64.80	855.00/2,500	STS5PF20L
8B	30	5	0.08	497-3231-1-ND	1.59 13.25 111.30	1722.50/2,500	STS5PF30L
8B	30	7	0.021	497-3233-1-ND	1.50 13.00 100.00	1330.00/2,500	STS7PF30L
8B	30	10	0.014	497-4120-1-ND	1.50 13.00 100.00	1330.00/2,500	STS10PF30L
8C	20	2.5	0.25	497-3225-1-ND	1.80 15.00 126.00	1950.00/2,500	STS2DPF30V
SOT23-6L							
12	20	3	0.135	497-3236-1-ND	1.09 9.43 72.50	1158.00/3,000	STT4PF20V
SOT-223							
13	20	5	0.08	497-4364-1-ND	1.04 8.28 62.10	1312.00/4,000	STN5PF20V
	60	2.5	0.20	497-4116-1-ND	.94 8.13 62.50	1332.00/4,000	STN3PF06
P-Channel with Schottky							
8-SOIC							
8C	30	5	0.055	497-4397-1-ND	1.65 14.30 110.00	1462.50/2,500	STS4DPFS30L
Dual P-Channel							
8-SOIC							
8A	30	4	0.08	497-3228-1-ND	1.65 13.75 115.50	1787.50/2,500	STS4DPF30L
	60	3	0.12	497-4123-1-ND	1.43 12.35 95.00	1262.50/2,500	STS3DPF60L

Fig.	V _{DS} (V)	I _D (A)	R _{DS(on)} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 100	Tape and Reel Pricing*	Mfg. Part No.
N/P-Channel							
8-SOIC							
8A	30	8/5	.022/.055	497-4398-1-ND	1.58 13.65 105.00	1397.50/2,500	STS8C5H30L
	60	4/3	.055/.12	497-4396-1-ND	1.50 13.00 100.00	1330.00/2,500	STS4C3F60L
PowerMESH™ IGBT							
TO-220							
1A	600	3	—	497-2653-5-ND‡	1.39 12.03 92.50	—	STGP3NB60F
	600	3	—	497-2652-5-ND‡	1.61 13.98 107.50	—	STGP3NB60FD
	600	14	—	497-4112-5-ND‡	1.69 14.63 112.50	—	STGP7NB60KD
	600	20	—	497-5008-5-ND‡	3.51 30.55 227.50	—	STGP10NB60SD
	600	25	—	497-4113-5-ND‡	1.65 13.75 115.50	—	STGP7NC60H
	600	60	—	497-4355-5-ND‡	3.11 27.03 201.25	—	STGP20NC60V
TO-247							
2A	600	20	2.8	497-2654-5-ND‡	5.94 51.70 385.00	—	STGW20NB60KD
	600	60	—	497-4356-5-ND‡	4.19 36.50 271.78	—	STGW20NC60V
	600	60	—	497-4357-5-ND‡	4.35 37.84 281.75	—	STGW20NC60VD
	600	60	—	497-5009-5-ND‡	5.00 43.48 323.75	—	STGW30NC60V
3A	600	80	—	497-4358-5-ND‡	6.88 62.79 496.34	—	STGW40NC60V
	18	20	—	497-4349-1-ND	3.42 29.73 221.38	1682.00/1,000	STGB10NB40LZT4
	20	40	—	497-4351-1-ND	3.73 32.43 241.50	1835.00/1,000	STGB20NB41LZT4
	350	20	—	497-3522-5-ND‡	3.51 30.55 227.50	—	STGB20NB32LZ
4A	425	20	—	497-4106-1-ND	3.56 31.02 231.00	1756.00/1,000	STGB10NB37LZT4
	600	3	—	497-2449-1-ND	1.61 13.98 107.50	—	STGB3NB60FDT4
	600	14	—	497-4107-1-ND	1.80 15.00 126.00	—	STGB7NB60HDT4
	600	25	—	497-4108-1-ND	1.59 13.25 111.30	716.00/1,000	STGB7NC60HDT4
6A	600	30	—	497-4350-1-ND	2.07 17.25 144.90	932.00/1,000	STGB12NB60KDT4
	600	6	—	497-2450-1-ND	1.39 12.03 92.50	1230.00/2,500	STGD3NB60FT4
	600	6	—	497-4109-1-ND	1.35 11.70 90.00	1197.50/2,500	STGD3NB60SDT4
	600	14	—	497-4110-1-ND	1.73 14.95 115.00	1530.00/2,500	STGD7NB60KT4
1200	600	25	—	497-4111-1-ND	1.62 13.50 113.40	1755.00/2,500	STGD7NB60HT4
	1200	10	—	497-4352-1-ND	1.73 14.95 115.00	1530.00/2,500	STGDSNB120SZT4
D²PAK							
TO-220FP							
6A	600	10	—	497-4354-5-ND‡	1.80 15.00 126.00	—	STGF7NC60HD
	1200	6	—	497-4353-5-ND‡	2.07 17.25 144.90	—	STGF3NC120HD

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging ‡ Tube packaging

C

ON Semiconductor™ MOSFETs

Fig. 1 — TO-220AB 1. Gate 2. Drain 3. Source 4. Drain	Fig. 2 — TO-92 A. 1. Source 2. Gate 3. Drain B. 1. Drain 2. Source 3. Gate C. 1. Drain 2. Drain 3. Source D. 1. Source 2. Drain 3. Gate	Fig. 3 — TO-251A 1. Gate 2. Drain 3. Source 4. Drain	Fig. 4 — 8-SOIC A. Source-1 1 8 Drain-1 Gate-1 2 7 Drain-1 Source-2 3 6 Drain-2 Gate-2 4 5 Drain-2 B. Source 1 8 Drain Source 2 7 Drain Source 3 6 Drain Gate 4 5 Drain C. N/C 1 8 Drain Source 2 7 Drain Source 3 6 Drain Gate 4 5 Drain	Fig. 5 — SOT-23 A. 1. Drain 2. Source 3. Gate B. 1. Gate 2. Source 3. Drain
Fig. 6 — SOT-323, SOT-416 1. Gate 2. Source 3. Drain	Fig. 7 — TSOP-6 A. 1. Drain 2. Drain 3. Gate 4. Source 5. Drain 6. Drain B. 1. Gate 1 2. Drain 3. Source 4. Drain 5. Drain 6. Gate 2	Fig. 8 — DPAK 1. Gate 2. Drain 3. Source 4. Drain	Fig. 9 — D2-PAK 1. Gate 2. Drain 3. Source 4. Drain	Fig. 10 — SC-89 1. Gate 2. Source 3. Drain
Fig. 11 — ChipFET A. S1 1. A 1. D G1 2. A 2. D S2 3. S 3. D G2 4. G 4. G D2 5. D 5. S D2 6. D 6. D D1 7. C 7. D D1 8. C 8. D	Fig. 12 — SOT-363 A. S1 1. D G1 2. D D2 3. G S2 4. S G2 5. D D1 6. D	Fig. 13 — TSSOP-8 1. D 2. S1 3. S1 4. G1 5. G2 6. S2 7. S2 8. D	Fig. 14 — Micro8 1. Anode 2. Anode 3. Source 4. Gate 5. Drain 6. Drain 7. Cathode 8. Cathode	Fig. 15 — SOT-563 A. S1 1. D G1 2. D D2 3. G S2 4. S G2 5. D D1 6. D

Fig.	V _{DS} (V)	R _{DS} (on) (Ω)	ID (A)	IDM (A)	PD (W)	Digi-Key Part No.	Pricing 10 100 250	Tape and Reel* Size Pricing
N-Channel								
TO-92								
2A	60	5	.2	.5	.350	2N7000RLRAGOSCT-ND	3.48 24.46 44.48	2,000 111.00/M
2C	60	5	0.5	—	.350	BS170RLRAOSCT-ND	3.75 27.00 50.63	— —
2C	60	5	0.5	—	.350	BS170RLRAGOSCT-ND	3.75 27.00 50.63	2,000 135.00/M

Fig.	V _{DS} (V)	R _{DS} (on) (Ω)	ID (A)	IDM (A)	PD (W)	Digi-Key Part No.	Pricing 10 100 250	Tape and Reel* Size Pricing
N-Channel								
TO-220AB								
1	24	.005	90	200	85	NTP90N020S-ND	14.63 112.50 236.25	— —
	24	.008	65	160	1.86	NTP65N020ROS-ND	12.50 105.00 218.75	— —

* For Tape and Reel part number, change CT-ND to TR-ND. ◇ RoHS Compliant

(Continued)

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