



**C**

Fig.	V <sub>CE</sub> V	I <sub>C</sub> A	T <sub>C</sub> = 25°C °C	V <sub>CE</sub> (sat) max. V	Digi-Key Part No.	Price Each	IXYS Part No.
						1	10
<b>IGBTs — Insulated Gate Bipolar Transistors — High Speed</b>							
13	600	48	2.7	IXGH24N60A-ND	6.25	5.21	4.17
	600	75	2.7	IXGH50N60A-ND	12.35	11.18	9.92
	600	48	2.5	IXGH24N60B-ND	4.38	3.96	3.46
	600	48	2.5	IXGH24N60C-ND	4.53	4.10	3.58
	600	60	2.5	IXGH32N60C-ND	5.32	4.82	4.21
	600	75	2.5	IXGH50N60B-ND	8.37	7.58	6.63
600	75	3.0	IXSH40N60A-ND	9.65	8.04	5.34	
<b>IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — low V<sub>CE</sub> (sat)</b>							
13	1000	20	3.5	IXGH10N100U1-ND	8.47	7.66	6.81
	1000	34	3.5	IXGH17N100U1-ND	8.65	7.83	6.95
	1700	25	3.3	IXBH16N170-ND	11.96	9.97	6.63
	600	60	2.3	IXGH32N60BU1-ND	9.41	7.85	5.20
14	600	75	3.0	IXGM40N60A-ND	28.95	24.13	19.30
<b>IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — High Speed</b>							
13	600	48	2.7	IXGH24N60AU1-ND	6.89	6.24	5.54
	600	60	1.8	IXGH30N60BD1-ND	7.82	7.08	6.19
	600	60	2.5	IXGH32N60CD1-ND	6.72	6.09	5.32
	600	55	2.5	IXSH30N60CD1-ND	8.06	7.29	6.37
	1000	20	4.0	IXGH10N100AU1-ND	8.20	7.43	6.60
	1000	34	4.0	IXGH17N100AU1-ND	8.77	7.94	7.05
<b>IGBT High Speed with Diode — RoHS Compliant</b>							
13	600	20	2.5	IXSH10N60B2D1-ND	2.19	1.99	1.78
	600	35	2.5	IXSH20N60B2D1-ND	3.11	2.82	2.52
	600	48	2.5	IXSH30N60B2D1-ND	4.01	3.63	3.25
15	600	20	2.5	IXSA10N60B2D1-ND	1.79	1.62	1.45
	600	35	2.5	IXSA20N60B2D1-ND	2.73	2.47	2.21
16	600	20	2.5	IXSP10N60B2D1-ND	1.76	1.59	1.42
	600	35	2.5	IXSP20N60B2D1-ND	2.70	2.45	2.19
17	600	20	2.5	IXSQ10N60B2D1-ND	1.97	1.78	1.60
	600	35	2.5	IXSQ20N60B2D1-ND	2.90	2.63	2.35
18	600	48	2.5	IXST30N60B2D1-ND	4.76	4.31	3.86
	1700	75	3.3	IXGT32N170CT-ND†	11.97	9.43	8.54
	1700	75	3.3	IXGT32N170TR-ND‡	3093.63/400		

Fig.	V <sub>DRM</sub> V	I <sub>TAV</sub> A	T <sub>C</sub> = 85°C °C	I <sub>T</sub> RMS A	Digi-Key Part No.	Price Each	IXYS Part No.
						1	10
<b>Phase Control SCRs</b>							
19	800	16	25	25	CS8-08I02-ND	10.21	8.52
	1200	16	25	25	CS8-12I02-ND	10.72	8.93
20	800	25	50	50	CS23-08I02-ND	16.42	13.69
	1200	25	50	50	CS23-12I02-ND	17.23	14.36
21	800	63	120	120	CS35-08I04-ND	21.63	18.03
	1200	63	120	120	CS35-12I04-ND	22.69	18.92
	1400	63	120	120	CS35-14I04-ND	23.78	19.82

Fig.	V <sub>DRM</sub> VA	I <sub>TAV</sub> @ T <sub>C</sub> °C	I <sub>T</sub> RMS A	Digi-Key Part No.	Price Each	IXYS Part No.
						1
<b>SCR Module — RoHS Compliant</b>						
1B	1200	2x116	85	2x180	MCC95-12I01B-ND	50.55
	1600	116	85	180	MCC95-16I08B-ND	53.51
	1600	2x32	85	2x50	MCC26-16I01B-ND	34.74
1C	1600	2x116	85	2x180	MCC95-16I01B-ND	55.36
22	1600	2x190	85	2x300	MCC162-16I01-ND	103.06

Fig.	V <sub>DSS</sub> max. V	I <sub>D25</sub> A	T <sub>C</sub> = 25°C °C	R <sub>DS(on)</sub> Ω	Digi-Key Part No.	Price Each	IXYS Part No.
						1	10
<b>MOSFETs — N-Channel Enhancement Mode — RoHS Compliant</b>							
23	200	50	0.45	IXFM50N20-ND	23.30	19.43	
24	500	14	0.4	IRFP450X-ND	3.26	2.96	
<b>MOSFETs — P-Channel Enhancement Mode — RoHS Compliant</b>							
24	-200	-24	1.1	IXTH24P20-ND	7.14	5.96	
	-600	-10	1.0	IXTH10P60-ND	7.84	6.54	
<b>MegaMOSFET™ — N-Channel Enhancement Mode - High Voltage — RoHS Compliant</b>							
24	1100	13	0.920	IXTH13N110-ND	12.76	11.55	
<b>MegaMOSFET™ N-Channel Enhancement Mode — RoHS Compliant</b>							
24	500	20	0.27	IRFP460X-ND	4.46	4.05	
	600	20	0.35	IXTH20N60-ND	7.56	6.85	

Fig.	V <sub>DSS</sub> max. V	I <sub>D25</sub> A	T <sub>C</sub> = 25°C °C	R <sub>DS(on)</sub> Ω	Digi-Key Part No.	Price Each	IXYS Part No.
						1	10
<b>MOSFETs — P-Channel Enhancement Mode Avalanche Rated</b>							
24	-500	-7	1.500	IXTH7P50-ND	6.65	6.02	
	-500	-8	1.200	IXTH8P50-ND	3.92	3.55	
	-500	-10	0.900	IXTH10P50-ND	8.12	7.36	
	-500	-11	0.750	IXTH11P50-ND	7.47	6.23	
<b>MOSFETs — N-Channel Enhancement Mode with Fast Intrinsic Diode</b>							
24	70	76	0.011	IXFH76N07-11-ND	5.95	5.38	
	70	76	0.012	IXFH76N07-12-ND	5.66	5.12	
	100	80	0.015	IXFH80N100-ND	8.39	7.59	
	200	42	0.06	IXFH42N20-ND	9.80	8.87	
	200	50	0.045	IXFH50N20-ND	5.95	5.38	
	200	58	0.04	IXFH58N20-ND	6.21	5.62	
	200	58	0.040	IXFH58N20Q-ND	6.21	5.62	
	200	80	0.028	IXFH80N20Q-ND	8.95	8.10	
	300	40	0.085	IXFH40N30-ND	6.07	5.49	
	300	40	0.08	IXFH40N30Q-ND	6.07	5.49	
	300	40	0.085	IXTH40N30-ND	7.82	7.08	
	300	52	0.060	IXFH52N30Q-ND	9.23	8.35	
500	13	0.4	IXFH13N50-ND	3.51	3.00		
500	21	0.25	IXFH21N50-ND	5.26	4.76		
500	24	0.23	IXFH24N50-ND	5.76	5.22		
500	26	0.20	IXFH26N50-ND	6.08	5.51		
500	26	0.20	IXFH26N50Q-ND	6.08	5.51		
500	32	0.15	IXFH32N50-ND	9.88	8.94		
600	20	0.35	IXFH20N60-ND	6.94	6.28		
600	26	0.250	IXFH26N60Q-ND	8.86	8.02		
800	7	1.4	IXFH7N80-ND	5.07	4.60		
800	13	0.80	IXFH13N80-ND	7.67	6.94		
800	15	0.60	IXFH15N80-ND	10.11	9.15		
800	15	0.600	IXFH15N80Q-ND	10.11	9.15		
800	20	0.420	IXFH20N80Q-ND	11.19	10.13		
900	6	1.8	IXFH6N90-ND	5.89	5.33		
1000	6	2.0	IXFH6N100-ND	5.43	4.92		
1000	10	1.2	IXFH10N100-ND	9.71	8.79		
1000	12	1.05	IXFH12N100-ND	10.24	9.27		
70	110	0.006	IXFK110N07-ND	12.96	10.80		
100	180	0.008	IXFK180N10-ND	17.75	14.80		
200	90	0.023	IXFK90N20-ND	12.06	10.92		
200	120	0.017	IXFK120N20-ND	18.64	15.54		
300	73	0.045	IXFK73N30-ND	17.77	14.81		
500	48	0.10	IXFK48N50-ND	19.56	16.30		
500	55	0.09	IXFK55N50-ND	24.31	20.26		
600	36	0.180	IXFK36N60-ND	19.23	16.03		
600	44	0.130	IXFK44N60-ND	21.04	17.54		
800	27	0.300	IXFK27N80-ND	21.85	18.21		
800	34	0.240	IXFK34N80-ND	22.41	18.68		
1000	24	0.390	IXFK24N100-ND	24.59	20.50		
200	120	0.017	IXFX120N20-ND	12.07	10.93		
500	55	0.080	IXFX55N50-ND	17.29	15.65		
1000	15	0.70	IXFX15N100-ND	10.88	9.85		
<b>MOSFETs — N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant</b>							
25	500	46	0.16	IXTK46N50L-ND	36.35	30.30	
	600	64	0.096	IXFK64N60P-ND	15.94	13.29	
26	500	64	0.085	IXFX64N50P-ND	12.26	10.22	
	500	80	0.065	IXFX80N50P-ND	16.53	13.78	
	600	48	0.135	IXFX48N60P-ND	12.26	10.22	
27	500	44	0.14	IXFK44N50P-ND	8.47	7.06	
	500	64	0.085	IXFK64N50P-ND	11.78	9.82	
	500	80	0.065	IXFK80N50P-ND	16.03	13.36	
	600	36	0.19	IXFK36N60P-ND	8.47	7.06	
28	500	48	0.135	IXFK48N60P-ND	11.78	9.82	
	500	12	0.5	IXFP12N50P-ND	2.18	1.82	
	500	16	0.4	IXFP16N50P-ND	2.66	2.22	
	600	10	0.74	IXFP10N60P-ND	2.18	1.82	
29	500	14	0.55	IXFP14N60P-ND	2.66	2.22	
	500	16	0.4	IXFH16N50P-ND	3.20	2.67	
	500	22	0.27	IXFH22N50P-ND	3.72	3.11	
	500	26	0.23	IXFH26N50P-ND	4.77	3.98	
29	500	30	0.2	IXFH30N50P-ND	5.49	4.58	
	500	36	0.17	IXFH36N50P-ND	6.38	5.32	
	500	44	0.14	IXFH44N50P-ND	7.86	6.56	
	600	14	0.55	IXFH14N60P-ND	3.20	2.67	
600	18	0.4	IXFH18N60P-ND	3.72	3.11		
600	22	0.35	IXFH22N60P-ND	4.77	3.98		
600	26	0.27	IXFH26N60P-ND	5.49	4.58		

♦ RoHS Compliant † Cut Tape ‡ Tape and Reel

(Continued)