

Make	Model	VDC	QG (nC)	ID(pulse)	ID (cont.)	Ptot (W)		RDSon (mΩ)				EAS (mJ)	E(on) (uJ)		E(off) (uJ)		E(tot) (uJ)		td(on)		tr		td(off)		tf	
		V			25°C	100°C	25°C	100°C	25°C	100°C	125°C	175°C	25°C	175°C	25°C	175°C	25°C	175°C	25°C	175°C	25°C	175°C	25°C	175°C		
Microchip	MSC025SMA330B4	3300	410	240	104	66			25																	
GeneSiC	G2R50MT33K	3300	340	235	63	44	536		50		105		1222		533		1755		74		37		32		18	
Microchip	MSC080SMA330B4	3300	55	100	41	26	381	153	84			100	1590		450		2040		34		25		50		32	
Microchip	MSC400SMA330B4	3300	37	27	11	7	131	52.25	416				750		120		870		16		8		16		20	
Infineon	IMYH200R012M1HXKSA1	2000	246	282	123	94	552	319	12	20	36		2400	3800	960	1200	4280	6835	16	21	13	19	50	77	24	27
Infineon	IMYH200R024M1HXKSA1	2000	137	189	89	63	576	288	24	41	72		1150	2140	400	435	2100	3675	19	23	11	14	40	58	16	18
Infineon	IMYH200R050M1HXKSA1	2000	82	102	48	34	348	174	50	85	150		830	1220	160	170	1270	1950	17	19	9	10	36	51	12	13
Infineon	IMYH200R075M1HXKSA1	2000	64	72	34	24	267	133	75	128	225		460	790	70	74	715	1234	7	8	5	6	26	36	7	8
Infineon	IMYH200R100M1HXKSA1	2000	55	57	26	19	217	108	100	170	300		280	570	50	50	470	900	2	3	3	4	21	28	5	5
onsemi	NTH4L028N170M1	1700	200	363	81	57	535	267	28		57	450	1311		683		1994		47		18		121		13	
Microchip	MSC035SMA170B4	1700	178	200	68	48	370	184.75	35			4000	1372		265		1637		7		7		15		17	
Wolfspeed	C2M0045170P	1700	204	160	75	48	338		40				520		430		950		15		18		34		12	
GeneSiC	G3R45MT17K	1700	106	120	46	33	284		45		94	592	481		237		718		23		17		15		11	
Microchip	MSC750SMA170B4	1700	11	12	7	5	68	33.5	750			360	107		17		124		13		12		7		8	
Qorvo	UF3SC120009K4S	1200	234	550	120	120	789	400	8.6		13.5	18.2	555	3463		722		4185		32		58		113		16
Infineon	IMZA120R007M1HXKSA1	1200	289	504	225	168	750	375	7	10	14	638	1360	2040	410	440	1926	3110	97	92	36	41	116	121	39	39
Diodes Incorporated	DMWSH120H28SM4Q	1200	156.3	430	100	70.8	429	214	20				744		1818		2562		28.83		59.66		48		12.52	
onsemi	NVH4L020N120SC1	1200	220	408	102	84	510	255	20		37	264	494		397		891		21.6		21		41		10	
onsemi	NTH4L020N120SC1	1200	220	408	102	84	510	255	20		37	264	494		397		891		21.6		21		41		10	
onsemi	NTH4L014N120M3P	1200	329	407	127	90	686	343	14		29	418	1308		601		1909									
GeneSiC	G3R12MT12K	1200	288	400	155	110	567		10		16	1204	741		490		1231		74		34		39		22	
Qorvo	UF3SC120016K4S	1200	218	350	107	77	517	260	16	25	33	327	2552		150		2702		33		59		73		12	
GeneSiC	G3R20MT12K	1200	180	300	100	71	389		20		29	750	353		182		535		38		17		18		11	
Microchip	MSC017SMA120B4	1200	249	280	113	80	455	205.25	17.6				684		195		879		29		18		51		13	
Microchip	MSC025SMA120B4	1200	232	275	103	73	500	250.25	25				1065		82		1147		18		35		35		10	
ST	SCTWA70N120G2V-4	1200	150	274	91	69	547		21				932		226		1158		15.5		9		36		18	
Infineon	IMZA120R014M1HXKSA1	1200	110	268	127	89.3	455	227	14	19	27	956	560	900	150	170	793	1403	48	46	18	21	58	60	20	20
Wolfspeed	C3M0016120K	1200	211	250	115	85	556	285	16		28.8		2300		600		2900		34		33		65		13	
onsemi	NVH4L022N120M3S	1200	151	246	68	48	352	176	22		47	267	490		221		771		18		24		48		13	
onsemi	NTH4L022N120M3S	1200	151	246	68	48	352	178	22		47	267	490		221		771		18		24		48		13	
onsemi	NTH4L040N120SC1	1200	106	232	58	41	319	160	40		70	578	411		205		616		17		20		32		10	
onsemi	NVH4L040N120SC1	1200	106	232	58	41	319	160	40		70	578	411		205		616		17		20		32		10	
Infineon	IMZA120R020M1HXKSA1	1200	83	213	98	71	375	188	19	25	36	721	470	722	140	145	671	1111	36	34	13.7	15.5	43.8	46	14.8	14.7
Qorvo	UF4SC120023K4S	1200	37.8	204	53	51	385	190	23		57	126	599		195		794		9.2		26		81		14	
Wolfspeed	C3M0021120K	1200	162	200	100	74	469		21		38			1580		340		1920		29		33		57		14
GeneSiC	G3R30MT12K	1200	118	200	70	50	281		30		43		298		97		395		36		11		20		8	
Littelfuse	LSIC1MO120G0025	1200	265	200	100	70	500	250	35		39		470		205		675		17		10		31		10	
ROHM	SCT4018KRC15	1200	170	179	81	57	315	155	18				520		142		662		13		21		50		11	
ST	SCTWA60N120G2-4	1200	94	177	60	45	388		35				617		188		805		16		15		32		14	
Qorvo	UF4SC120030K4S	1200	37.8	164	53	41	341	170	30	56	77	97	423		73		496		13		20		85		12	
SemiQ	GP2T040A120H	1200	118	160	63	47	322		37	56	73	400	446		68		514		14		5		23		14	
Infineon	IMZ120R030M1HXKSA1	1200	63	150	56	45	227	114	30	38	57		260		78		338		7.7		27.9		17.3		11.5	
Infineon	IMZA120R030M1HXKSA1	1200	52	147	70	49	273	136	30	41	50	450	230	392	60	65	330	618	23	22	8.5	9.7	27.3	28	9.2	9.2
ROHM	SCT3040KRC14	1200	107	137	55	39	260	130	40				341		130		471		6		21		27		20	
ROHM	SCT3040KRC15	1200	107	137	55	39	260	130	40				341		130		471		6		21		27		20	
onsemi	NTH4L040N120M3S	1200	75	134	54	38	231	115	40		80	143	182		66		248		12		15		35		10	
Infineon	IMZ120R045M1XKSA1	1200	52	130	52	36	228	114	45	55	75		280		70		350		9		18		17		13	
onsemi	NTH4L080N120SC1	1200	56	125	29	21	170		80			171	314		32		346		9		4.2		26.8		5.4	
onsemi	NVH4L080N120SC1	1200	56	125	29	21	170		80			171	314		32		346		9		4.2		26.8		5.4	
Wolfspeed	C3M0032120K	1200	118	120	63	48	283		32		57.6		955		107		1062		25		18		32		9	
Infineon	IMZA120R040M1HXKSA1	1200	39	117	55	39	227	114	39	54	77	339	190		50		240	53	17		6.4		20.6		6.9	
Wolfspeed	C3M0040120K	1200	99	100	66	48	326		40		68		611		99		710		13		17		23		9	
Microchip	MSC080SMA120B4	1200	64	90	37	26	200	100.25	80			1000	266		52		318		5		4		21		15	
ROHM	SCT4036KRC15	1200	91	84	43	30	175	90	36				239		26		265		8.1		15		29		9.6	
ROHM	SCT4036KRHRC15	1200	91	84	43	30	175	90	36				239		26		265		8.1		15		29		9.6	
WeEn	WNSCM80120RQ	1200	59	81	45	32	270	140	80			162	393		42		435		7		17		18		8	
SemiQ	GP2T080A120H	1200	61	80	35	26	188	95	77	106	134	200	208		25		233		9		4		15		10	
Wolfspeed	C3M0075120K	1200	53	80	32	23	136	68	75		120		270		77		347		30		14		38		10	
Wolfspeed	C3M0075120K-A	1200	53	80	32	23	136	68	75		120		270		77		347		30		14		38		10	
ROHM	SCT3080KRC15	1200	60	77	31	22	165	82	80				168		21		189		5		14		19		13	
Infineon	IMZ120R060M1HXKSA1	1200	31	76	36	26	150	75	60	76	113		196		36		232		6		11.6		12.7		10.8	
GeneSiC	G3R75MT12K	1200	47	70	31	22	137	68	75		106	199	151		37		188		28		15		17		10	
onsemi	NTH4L160N120SC1	1200	34	69	17.3	12.3	111	55.5	160																	

Infineon	IMZ120R090M1HXKSA1	1200	21	50	26	18	115	55	90	115	170	92	19	111	5.4	3	11.5	11							
Infineon	IMZ120R140M1HXKSA1	1200	13	32	19	13	94	47	140	178	265	62	12	74	5	5	2	4.4	10.3	10.3	11.6	11.6			
Infineon	IMZ120R220M1HXKSA1	1200	8.5	21	13	9.5	75	37.5	220	280	416	41	57	7.5	9	48.5	66	4.8	4.8	1	2.7	9.8	9.8	12.7	12.7
Infineon	IMZ120R350M1HXKSA1	1200	5.3	13	4.7	4.7	60	30	350	446	662	24	34	4	5	28	39	4.8	4.8	0.7	1.7	10.8	10.8	19.3	19.3
onsemi	NTH4L020N090SC1	900	196	504	116	82	484	242	20		27	264	611	293	904	29	28	54	14						
onsemi	NVH4L020N090SC1	900	196	504	116	82	484	242	20		27	264	611	293	904	29	28	54	14						
onsemi	NVH4L018N075SC1	750	262	807	140	99	500	250	18		19	162	144	207	351	24	24	46	9.6						
Qorvo	UJ4SC075006K4S	750	164	588	120	120	714	360	5.9	9.8	12.9	316	514	170	684	37	40	110	13						
Qorvo	UJ4SC075009K4S	750	75	344	106	86	375	180	9	14.8	19.4	202	440	115	555	22	34	63	13						
Qorvo	UJ4SC075011K4S	750	75	300	104	75	357	180	11	18.4	24.2	151	257	107	364	19	26	65	9						
ROHM	SCT4013DRC15	750	170	233	105	74	315	155	13			500	310	810	17	32	82	17							
Qorvo	UJ4C075018K4S	750	37.8	205	81	60	385		18	31	41	97.2	407	255	662	13	35	146	17						
Microchip	MSC015SMA070B4	700	215	350	140	99	455	227.75	15		19	4400	381	48	429	38	8	55	14						
Microchip	MSC035SMA070B4	700	99	192	77	54	283	140.5	35			1400	247	53	300	12	9	35	21						
Qorvo	UF3SC065007K4S	650	214	550	120	120	789	390	6.7	8.8	11	555	925	83	1008	36	46	72	14						
Infineon	IPZ60R017C7XKSA1	650	240	495	109	69	446	170	17			582				30	13	106	3						
onsemi	NTH4L015N065SC1	650	283	483	142	100	500	250	15		16	84	167	276	443	23	26	49	9.6						
onsemi	NVH4L015N065SC1	650	283	483	142	100	500	250	15		16	84	167	276	443	23	26	49	9.6						
ST	STW65N023M9-4	650	230	440	92	58	463		19.9		23	1307				45	15	145	7						
Wolfspeed	C3M0015065K	650	188	418	120	96	416	200	15		20		401	254	655	23	32	57	15						
Infineon	IPZA60R024P7XKSA1	650	164	386	101	63	291	130	24			406				47	6.4	175	22						
ST	STW88N65M5-4	650	204	336	84	50.5	450		24			2000				150	19	24	45						
onsemi	NTH4L025N065SC1	650	164	323	99	70	348	174	25	24	62	93	84	177	17	19	32	8							
onsemi	NVH4L025N065SC1	650	164	323	99	70	348	174	25	24	62	93	84	177	17	19	32	8							
Infineon	IPZ60R037P7XKSA1	650	121	280	76	48	255		30			295				20	10	90	4						
Infineon	IPZA60R037P7XKSA1	650	121	280	76	48	255		30			295				20	10	90	4						
Wolfspeed	C3M0025065K	650	112	251	97	70	326	160	25	33		121	53	174	12	18	25	8							
Qorvo	UF3C065030K4S	650	43	230	85	62	441	220	27	43	120	310	171	481	22	27	48	10							
Fairchild	FCH041N65EFL4	650	229	228	76	48.1	595		36			2025			55	25	169	18							
onsemi	FCH041N65EFL4	650	229	228	76	48.1	595		36			2025			55	25	169	18							
IXYS	IXFH80N65X2-4	650	140	160	80	55	890		38			3000			32	24	70	11							
Infineon	IPZ60R041P6FKSA1	600	170	267	77.5	49	481		41			1954			27	25	87	5							