

Other Products from IR

Schottky Diode

Surface Mount - Discrete

0.77 - 20 Amps

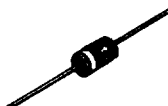
Part Number	VRRM (V)	IF(AV) @ TC		VFM @ IFM (V)	EAS (mJ)	IAR (A)	IRM@ Rated VRWM (mA)	Max. TJ (°C)	Case Outline Number	Case Style		
		(A)	(°C)									
10MQ040	40	1.1	92	0.51	—	—	50	125	J1	D-64 		
10MQ060	60	0.77	110	0.57			7.5					
10MQ090	90	0.77	110	0.65			5.0					
15MQ040	40	1.7		0.55	—	—	50					
10BQ015	15	1	78	0.34	5.0	0.2	12	100	J2	SMB 		
10BQ040	40	1	112	0.53	18	0.2	4.0	150				
10BQ060	60	1	103	0.57	11	1.0	5.0	150				
10BQ100	100	1	152	0.78	9.7	1.0	1.0	175				
30BQ015	15	3	75	0.35	10	0.6	50	100	J3	SMC 		
30BQ040	40	3	123	0.45	35	0.6	20	150				
30BQ060	60	3	122	0.52	35	3.4	20	150				
30BQ100	100	3	148	0.62	50	2.8	5	175				
30WQ03F	30	3.3	105	0.56	—	—	12	125	J8	T0-252AA (D-Pak) 		
30WQ04F	40	3.3	105	0.56			12					
30WQ05F	50	3.3	104	0.60			20					
30WQ06F	60	3.3	104	0.60			20					
30WQ09F	90	3.3	103	0.74			2					
30WQ10F	100	3.3	103	0.74			2					
50WQ03F	30	5.5	92	0.60	—	—	20	125				
50WQ04F	40	5.5	92	0.60			20					
50WQ05F	50	5.5	89	0.66			30					
50WQ06F	60	5.5	89	0.66			30					
50WQ09F	90	5.5	90	0.77			3					
50WQ10F	100	5.5	90	0.77			3					
6TQ035S	35	6	163	0.51	8	1.2	7	175	J4	SMD-220 		
6TQ045S	45											
8TQ080S	80	8	157	0.58	7.5	0.5	7	175				
8TQ100S	100											
10TQ035S	35	10	151	0.49	13	2	15	175				
10TQ045S	45											
12TQ035S	35	15	120	0.50	16	2.4	70	150				
12TQ045S	45											
18TQ035S	35	18	149	0.53	24	3.6	25	175				
18TQ045S	45											
19TQ015S	15	19	80	0.32	6.75	1.5	522	100				
20TQ035S	35	20	116	0.51	27	4	105	150				
20TQ045S	45											

Schottky Diode

Discrete

1.1 - 20 Amps

Other Products from IR

Part Number	VRRM (V)	I _{F(AV)} @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)							
11DQ03	30	1.1	58	0.50	—	—	6	125	J5	D0-204AL (D0-41) 
11DQ04	40	1.1	58	0.50			6			
11DQ05	50	1.1	40	0.53			11			
11DQ06	60	1.1	40	0.53			11			
11DQ09	90	1.1	48	0.68			1			
11DQ10	100	1.1	48	0.68			1			
31DQ03	30	3.3	35	0.51	—	—	25	125	J6	D0-201AD 
31DQ04	40	3.3	35	0.51			25			
31DQ05	50	3.3	19	0.53			30			
31DQ06	60	3.3	19	0.53			30			
31DQ09	90	3.3	25	0.69			4			
31DQ10	100	3.3	25	0.69			4			
50SQ080	80	5	119	0.52	15	1	7	175	J7	D0-204AR 
50SQ100	100	8	119	0.44	10	1.6	15	175		
80SQ035	35									
80SQ040	40									
80SQ045	45	9	69	0.42	12	1.8	70	150		
90SQ035	35									
90SQ040	40									
90SQ045	45	9	55	0.25	4.5	1	348	100		
95SQ015	15									
6TQ035	35	6	163	0.51	8	1.2	7	175	J10	T0-220AC 
6TQ040	40									
6TQ045	45									
MBR735	35	7.5	120	0.57	—	1.0	15	150		
MBR745	45									
8TQ080	80	8	157	0.58	7.5	0.5	7	175		
8TQ100	100									
MBR1035	35	10	120	0.57	—	1.0	15	150		
MBR1045	45									
10TQ035	35	10	151	0.49	13	2	15	175		
10TQ040	40									
10TQ045	45									
12TQ035	35	15	120	0.50	16	2.4	70	150		
12TQ040	40									
12TQ045	45									
MBR1635	35	16	125	0.57	—	1.0	40	150		
MBR1645	45									
18TQ035	35	18	149	0.53	24	3.6	25	175		
18TQ040	40									
18TQ045	45									
19TQ015	15	19	80	0.32	6.75	1.5	522	100		
20TQ035	35	20	116	0.51	27	4	105	150		
20TQ040	40									
20TQ045	45									

Other Products from IR

Schottky Diode Discrete 25 -90 Amps

Part Number	VRRM (V)	IF(AV) @ TC		VFM @ IFM (V)	EAS (mJ)	IAR (A)	IRM @ Rated VRWM (mA)	Max. TJ (°C)	Case Outline Number	Case Style
		(A)	(°C)							
1N6391	45	25	115	0.78	40	6	40	175	J13	D0-203AA (D0-4) 
1N6095	30	25	105	0.86	40	6	250	125		
1N6096	40									
SD41	35	30	96	0.58	—	—	125	150		
20FQ035	35									
20FQ040	40	30	111	0.47	40	6	150	150		
20FQ045	45									
21FQ035	35								J14	D0-203AB (D0-5) 
21FQ040	40	30	107	0.51	40	6	150	150		
21FQ045	45									
30FQ035	35									
30FQ040	40	30	144	0.54	40	6	35	175		
30FQ045	45									
1N6097	30	50	70	0.86	81	12	250	125		
1N6098	40									
SD51	35	60	90	0.66	—	—	200	150		
1N6392	45	60	115	0.68	101	15	60	175		
50HQ035	35									
50HQ040	40	60	101	0.53	81	12	200	150		
50HQ045	45									
51HQ035	35									
51HQ040	40	60	96	0.58	81	12	200	150		
51HQ045	45									
55HQ030	30	60	110	0.41	54	12	280	150		
60HQ080	80	60	118	0.70	15	1	20	175		
60HQ100	100									
75HQ035	35									
75HQ040	40	75	117	0.63	101	15	45	175		
75HQ045	45									
MBR7535	35	75	90	0.60	—	—	150	150		
MBR7545	45				—	—				
85HQ035	35									
85HQ040	40	85	112	0.62	114	17	45	175		
85HQ045	45									
95HQ015	15	95	44	0.39	9	2	1000	100		

Schottky Diode

Center Tap - Surface Mount
6.6 - 30 Amps

Other Products from IR

Part Number	VRRM (V)	IF(AV) @ TC		VFM @ IFM (V)	EAS (mJ)	IAR (A)	IRM@ Rated VRWM (mA)	Max. TJ (°C)	Case Outline Number	Case Style
		(A)	(°C)							
6CWQ03F	30	6.6	97	0.63	—	—	20	125	K1	TO-252AA (D-Pak) 
6CWQ04F	40	6.6	97	0.63			20			
6CWQ05F	50	6.6	92	0.67			30			
6CWQ06F	60	6.6	92	0.67			30			
6CWQ09F	90	6.6	94	0.79			3			
6CWQ10F	100	6.6	94	0.79			3			
10CTQ150S	150	10	145	0.86	6.75	0.30	7	175	K2	SMD-220 
12CTQ035S	35	12	157	0.63	8	1.2	7	175		
12CTQ045S	45									
15CTQ035S	35	15	123	0.65	10	1.5	32	150		
15CTQ045S	45									
MBRB1535CT	35	15	105	0.72	—	1.0	15	150		
MBRB1545CT	45									
16CTQ080S	80	16	145	0.69	7.5	0.5	7	175		
16CTQ100S	100									
20CTQ035S	35	20	145	0.68	13	2	15	175		
20CTQ045S	45									
MBRB2080CT	80									
MBRB2090CT	90	10	133	0.70	—	0.5	150	150		
MBRB20100CT	100									
25CTQ035S	35	30	102	0.64	20	3	70	150		
25CTQ045S	45									
30CTQ035S	35	30	127	0.70	20	3	15	175		
30CTQ045S	45									
30CTQ050S	50	30	97	0.71	13	1.5	45	150		
30CTQ060S	60									
32CTQ030S	30	30	109	0.53	13	3	97	150		

Other Products from IR

Schottky Diode

Center Tap - Discretes
10- 30 Amps

Part Number	VRRM (V)	I _{F(AV)} @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)							
10CTQ150	150	10	145	0.86	6.75	0.30	7	175	K3	T0-220AB
12CTQ035	35	12	157	0.63	8	1.2	7	175		
12CTQ040	40									
12CTQ045	45									
15CTQ035	35	15	123	0.65	10	1.5	32	150		
15CTQ040	40									
15CTQ045	45									
MBR1535CT	35	15	105	0.72	—	1.0	15	150		
MBR1545CT	45									
16CTQ080	80	16	145	0.69	7.5	0.57	175			
16CTQ100	100									
20CTQ035	35	20	145	0.68	13	2	15	175		
20CTQ040	40									
20CTQ045	45									
MBR2035CT	35	20	135	0.72	—	1.0	15	150		
MBR2045CT	45									
MBR2080CT	80	10	133	0.70	—	0.5	150	150		
MBR2090CT	90									
MBR20100CT	100									
MBR2535CT	35	30	130	0.73	—	1.0	40	150		
MBR2545CT	45									
25CTQ035	35	30	102	0.64	20	3	70	150		
25CTQ040	40									
25CTQ045	45									
30CTQ035	35	30	127	0.70	20	3	15	175		
30CTQ040	40									
30CTQ045	45									
30CTQ050	50	30	97	0.71	13	1.5	45	150		
30CTQ060	60									
32CTQ030	30	30	109	0.53	13	3	97	150		



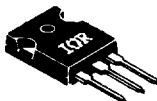


Schottky Diode

Center Tap - Discrete

30 - 60 Amps

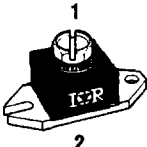
Other Products from IR

Part Number	VRRM (V)	I _{F(AV)} @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)							
30CPQ035	35	30	124	0.64	20	3	70	150	K4	T0-247AC (T0-3P) 
30CPQ040	40									
30CPQ045	45									
30CPQ050	50	30	112	0.70	13	1.5	45	150		
30CPQ060	60									
30CPQ080	80	30	140	0.81	7.5	0.5	7	175		
30CPQ100	100									
30CPQ150	150	30	131	0.93	11.25	0.5	15	175		
MBR3035PT	35	30	105	0.72	—	2.0	100	150		
MBR3045PT	45									
40CPQ035	35	40	120	0.56	27	4	150	150		
40CPQ040	40									
40CPQ045	45									
40CPQ050	50	40	120	0.64	18	2	96	150		
40CPQ060	60									
40CPQ080	80	40	145	0.75	11.25	0.75	15	175		
40CPQ100	100									
MBR4045PT	45	40	103	0.72	20	3	70	150		
MBR4060PT	60	40	101	0.77	13	1.5	45	150		
MBR6045WT	45	60	100	0.69	—	2	150	150		
MBR3035CT	35	30	105	0.72	—	2.0	60	150	K5	T0-204AA (T0-3) 
MBR3045CT	45									
40CDQ035	35	40	135	0.71	27	4	25	175		
40CDQ040	40									
40CDQ045	45									
SD241	35	60	120	0.92	—	—	20	175	K6	T0-204AE (T0-3 MOD) 
60CDQ035	35	60	112	0.80	40	6	25	175		
60CDQ040	40									

Other Products from IR

Schottky Diode Modules 120 - 180 Amps

Part Number	VRRM (V)	I _{F(AV)} @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	R _{thCS} /Leg (°C/W)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)								
120NQ035 120NQ040 120NQ045 120NQ045R	35 40 45 45	120	99	0.52	81	12	400	0.40	150	J15	D-67 Half Pak
121NQ035 121NQ040 121NQ045 121NQ045R	35 40 45 45										
122NQ030 122NQ030R	30 30										
123NQ080 123NQ100 123NQ100R	80 100 100										
124NQ035 124NQ040 124NQ045 124NQ045R	35 40 45 45	120	76	0.52	135	20	1200	0.40	125		
125NQ015 125NQ015R	15 15										
128NQ060 128NQ060R	60 60										
129NQ150 129NQ150R	150 150										
180NQ035 180NQ040 180NQ045 180NQ045R	35 40 45 45	180	90	0.56	243	36	600	0.30	150		
181NQ035 181NQ040 181NQ045 181NQ045R	35 40 45 45										
182NQ030 182NQ030R	30 30										
183NQ080 183NQ100 183NQ100R	80 100 100										
185NQ015 185NQ015R	15 15	180	66	0.34	9	2	2670	0.30	100		
188NQ060 188NQ060R	60 60										
189NQ150 189NQ150R	150 150										



1
2



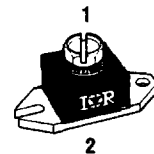
1
2

Standard Configuration



1
2

'R' Configuration
Reverse Polarity



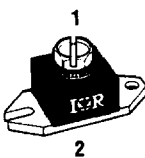
Standard Configuration



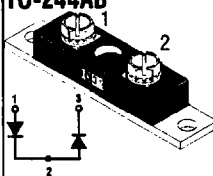
'R' Configuration
Reverse Polarity

Schottky Diode Modules 200 - 400 Amps

Other Products from IR

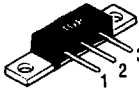
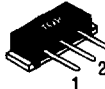
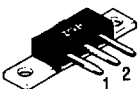
Part Number	VRRM (V)	I _F (AV) @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	R _{thCS} /Leg (°C/W)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)								
240NQ035 240NQ040 240NQ045 240NQ045R	35 40 45 45	240	96	0.55	324	48	800	0.20	150	J15	D-67 Half Pak   Standard Configuration  Reverse Configuration
241NQ035 241NQ040 241NQ045 241NQ045R	35 40 45 45	240	130	0.59	324	48	180	0.20	175		
242NQ030 242NQ030R	30 30	240	111	0.42	216	48	1120	0.20	150		
243NQ080 243NQ100 243NQ100R	80 100 100	240	120	0.74	15	1.0	140	0.20	175		
244NQ035 244NQ040 244NQ045 244NQ045R	35 40 45 45	240	75	0.52	270	40	2400	0.20	125		
245NQ015 245NQ015R	15 15	240	70	0.34	9.0	2.0	3560	0.20	100		
248NQ060 248NQ060R	60 60	240	120	0.61	75	1.0	960	0.20	150		
249NQ150 249NQ150R	150 150	240	139	0.74	290	1.0	85	0.20	175		

DOUBLER

Part Number	VRRM (V)	I _F (AV) @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	R _{thCS} /Leg (°C/W)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)								
203DNQ100 209DNQ150	100 150	200 200	120 100	0.72 0.80	15 32	1.0 1.0	0.70 50	0.40 0.40	175 175	K17	TO-244AB  
203DMQ100 209DMQ150 400DMQ045	100 150 45	200 200 400	100 97 60	0.72 0.80 0.62	15 32 180	1.0 1.0 40	0.70 50 800	0.70 0.70 0.50	175 175 150		

Other Products from IR

Schottky Diode Center Tap - Modules 60 - 80 Amps

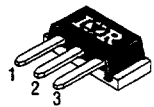
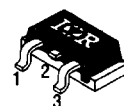
Part Number	VRRM (V)	IF(AV) @ TC		VFM @ IFM (V)	EAS (mJ)	IAR (A)	IRM@ Rated VRRM (mA)	RthCS /Leg (°C/W)	Max. TJ (°C)	Case Outline Number	Case Style										
		(A)	(°C)																		
60CNQ035 60CNQ040 60CNQ045	35 40 45	60	116	0.44	40	6.0	200	0.85	150	K7	D61-6 										
61CNQ035 61CNQ040 61CNQ045	35 40 45											60	149	0.49	40	6.0	45	0.85	175		
62CNQ030	30																			60	135
63CNQ080 63CNQ100	80 100	60	155	0.64	15	1.0	35	0.85	175												
60CNQ045SM 61CNQ045SM 62CNQ030SM 63CNQ100SM	45 45 30 100	60	116 149 135 155	0.44 0.49 0.35 0.64	40 40 27 15	6.0 6.0 6.0 1.0	200 45 280 35	0.85 0.85 0.85 0.85	150 175 150 175			K8	SMD61-6 								
60CNQ045SL 61CNQ045SL 62CNQ030SL 63CNQ100SL	45 45 30 100	60	116 149 135 155	0.44 0.49 0.35 0.64	40 40 27 15	6.0 6.0 6.0 1.0	200 45 280 35	0.85 0.85 0.85 0.85	150 175 150 175	K9	SLD61-6 										
80CNQ035 80CNQ040 80CNQ045	35 40 45	80	109	0.47	54	8.0	200	0.85	150			K10	D61-8 								
81CNQ035 81CNQ040 81CNQ045 81CNQ050	35 40 45 50													80	141	0.54	54	8.0	45	0.85	175
82CNQ030	30																				
83CNQ080 83CNQ100	80 100	80	132	0.67	15	1.0	35	0.85	175												
84CNQ035 84CNQ040 84CNQ045	35 40 45	80	91	0.44	54	8.0	600	0.85	125												
85CNQ015	15									80	78			0.32	9.0	2.0	890	0.85	100		
88CNQ060	60									80	95			0.56	75	1.0	240	0.85	150		
89CNQ150	150	80	117	0.69	190	1.0	21	0.85	175												

Schottky Diode

Center Tap - Modules

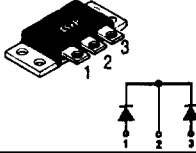
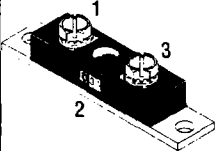
80 - 150 Amps

Other Products from IR

Part Number	VRRM (V)	IF(AV) @ TC		VFM @ IFM (V)	EAS (mJ)	IAR (A)	IRM@ Rated VRWM (mA)	RthCS /Leg (°C/W)	Max. TJ (°C)	Case Outline Number	Case Style		
		(A)	(°C)										
80CNQ045SM	45	80	109	0.47	54	8.0	200	0.85	150	K11	SMD61-8 		
81CNQ045SM	45	80	141	0.54	54	8.0	45	0.85	175				
81CNQ050SM	50												
82CNQ030SM	30	80	119	0.35	36	8.0	280	0.85	150				
83CNQ100SM	100	80	132	0.67	15	1.0	35	0.85	175				
84CNQ045SM	45	80	91	0.44	54	8.0	600	0.85	125				
85CNQ015SM	15	80	78	0.32	9.0	2.0	890	0.85	100				
80CNQ045SL	45	80	109	0.47	54	8.0	200	0.85	150	K12	SLD61-8 		
81CNQ045SL	45	80	141	0.54	54	8.0	45	0.85	175				
81CNQ050SL	50												
82CNQ030SL	30	80	119	0.35	36	8.0	280	0.85	150				
83CNQ100SL	100	80	132	0.67	15	1.0	35	0.85	175				
84CNQ045SL	45	80	91	0.44	54	8.0	600	0.85	125				
85CNQ015SL	15	80	78	0.32	9.0	2.0	890	0.85	100				
150CMQ035	35	150	71	0.60	101	15	200	1.00	150	K13	D-60 		
150CMQ040	40												
150CMQ045	45												
151CMQ035	35	150	104	0.65	101	15	45	1.00	175				
151CMQ040	40												
151CMQ045	45												
152CMQ030	30	150	85	0.47	68	15	280	1.00	150				
153CMQ080	80	150	90	0.80	15	1.0	35	1.00	175				
153CMQ100	100												
150CNQ045	45	150	86	0.60	101	15	200	0.80	150	K14	D-60 Non-Isolated 		
151CNQ045	45	150	118	0.65	101	15	45	0.80	175				
153CNQ100	100	150	107	0.80	15	1.0	35	0.80	175				
													

Other Products from IR

Schottky Diode Center Tap - Modules 130 - 220 Amps

Part Number	VRRM (V)	I _{F(AV)} @ T _C		V _{FM} @ I _{FM} (V)	E _{AS} (mJ)	I _{AR} (A)	I _{RM} @ Rated V _{RWM} (mA)	R _{thCS} /Leg (°C/W)	Max. T _J (°C)	Case Outline Number	Case Style
		(A)	(°C)								
160CMQ035 160CMQ040 160CMQ045	35 40 45	160	69	0.60	108	16	200	1.00	150	K15	TO-249AA Isolated 
161CMQ035 161CMQ040 161CMQ045	35 40 45	160	101	0.63	108	16	45	1.00	175		
162CMQ030 163CMQ080 163CMQ100	30 80 100	160	83	0.46 0.82	72 15	16 1.0	280 35	1.00 1.00	150 175		
168CMQ060	60	160	96	0.67	75	1.0	240	1.00	150		
160CNQ045 161CNQ045 162CNQ030 163CNQ100	45 45 30 100	160	100 120 107 112	0.60 0.63 0.46 0.82	108 108 72 15	16 16 16 1.0	200 45 280 35	0.80 0.80 0.80 0.80	150 175 150 175	K16	TO-249AA Non-Isolated 
200CNQ035 200CNQ040 200CNQ045	35 40 45	200	108	0.49	135	20	400	0.40	150		
201CNQ035 201CNQ040 201CNQ045 201CNQ050	35 40 45 50	200	138	0.58	135	20	90	0.40	175		
203CNQ080 203CNQ100	80 100	200	130	0.72	15	1.0	70	0.40	175		
208CNQ060 209CNQ150 220CNQ025 220CNQ030	60 150 25 30	200 220	106 131 114	0.75 0.80 0.40	75 32 99	1.0 1.0 22	480 50 560	0.40 0.40 0.40	150 175 150	K17	TO-244AB 
224CNQ035 224CNQ040 224CNQ045	35 40 45	220	81	0.50	135	20	1200	0.40	125		

Schottky Diode

Center Tap - Modules

200 - 440 Amps

Other Products from IR

Part Number	VRRM (V)	IF(AV) @ TC		VFM @ IFM (V)	EAS (mJ)	IAR (A)	IRM @ Rated VRWM (mA)	RthCS /Leg (°C/W)	Max. TJ (°C)	Case Outline Number	Case Style
		(A)	(°C)								
225CNQ015	15	220	74	0.32	9.0	2.0	2000	0.40	100	K17	TO-244AB Non-Isolated
300CNQ035	35	300	100	0.62	160	30	600	0.40	150		
300CNQ040	40	300	98	0.62	160	30	600	0.40	150		
300CNQ045	45	300	96	0.62	160	30	600	0.40	150		
301CNQ035	35										
301CNQ040	40	300	120	0.59	202	30	90	0.40	175		
301CNQ045	45										
301CNQ050	50										
303CNQ080	80	300	126	0.72	15	1.0	105	0.30	175		
303CNQ100	100										
309CNQ150	150	300	125	0.85	190	1.0	75	0.30	175		
400CNQ035	35										
400CNQ040	40	400	105	0.52	180	40	800	0.20	150		
400CNQ045	45										
401CNQ035	35										
401CNQ040	40	400	138	0.56	270	40	180	0.20	175		
401CNQ045	45										
403CNQ080	80	400	105	0.72	15	1.0	140	0.20	175		
403CNQ100	100										
408CNQ060	60	400	49	0.88	75	1.0	960	0.20	150		
409CNQ150	150	400	128	0.85	190	1.0	90	0.20	175		
440CNQ030	30	440	115	0.41	198	44	1120	0.20	150		
444CNQ035	35									K18	TO-244 AB Isolated
444CNQ040	40	440	81	0.51	270	40	2400	0.20	125		
444CNQ045	45										
445CNQ015	15	440	75	0.47	18	4.0	4000	0.20	100		
201CMQ045	45	200	110	0.58	135	20	90	0.70	175		
203CMQ100	100	200	100	0.72	15	1.0	70	0.70	175		
208CMQ060	60	200	95	0.75	75	1.0	480	0.50	150		
209CMQ150	150	200	97	0.80	32	1.0	50	0.70	175		
220CMQ030	30	220	95	0.40	99	22	560	0.70	150		
401CMQ045	45	400	120	0.56	270	40	180	0.50	175		
403CMQ100	100	400	85	0.72	15	1.0	140	0.50	175		
408CMQ060	60	400	109	0.88	75	1.0	960	0.50	150		
440CMQ030	30	440	63	0.41	198	44	1120	0.50	150		

