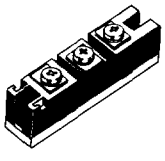
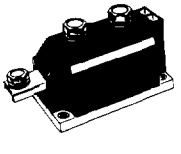
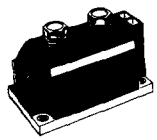
Power Modules
Diode/Diode

International
IOR Rectifier

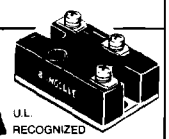
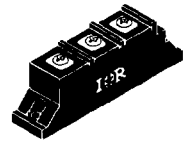
Part Number (3)	Part Number (4)	Part Number (5)	V_{RRM} (V)	$I_{F(AV)}$ @ T_C (A)	T_C (°C)	I_{FSM} (7) 50 Hz (A)	I_{FSM} (7) 60 Hz (A)	(9) V_{FM} (V)	R_{thJC} DC (1) (K/W)	Case Outline Number (8)	Notes	Case Style
IRKD166-04	IRKC166-04	IRKJ166-04	400	165	100	3350	3500	1.69	0.10	M5	(6) (10)	
IRKD166-06	IRKC166-06	IRKJ166-06	600									
IRKD166-08	IRKC166-08	IRKJ166-08	800									
IRKD166-10	IRKC166-10	IRKJ166-10	1000									
IRKD166-12	IRKC166-12	IRKJ166-12	1200									
IRKD166-14	IRKC166-14	IRKJ166-14	1400									
IRKD166-16	IRKC166-16	IRKJ166-16	1600									
IRKD166-18	IRKC166-18	IRKJ166-18	1800									
IRKD166-20	IRKC166-20	IRKJ166-20	2000									
IRKD196-04	IRKC196-04	IRKJ196-04	400	195	100	4000	4200	1.38	0.10			
IRKD196-06	IRKC196-06	IRKJ196-06	600									
IRKD196-08	IRKC196-08	IRKJ196-08	800									
IRKD196-10	IRKC196-10	IRKJ196-10	1000									
IRKD196-12	IRKC196-12	IRKJ196-12	1200									
IRKD196-14	IRKC196-14	IRKJ196-14	1400									
IRKD196-16	IRKC196-16	IRKJ196-16	1600									
IRKD196-18	IRKC196-18	IRKJ196-18	1800									
IRKD196-20	IRKC196-20	IRKJ196-20	2000									
IRKD196-22	IRKC196-22	IRKJ196-22	2200									
IRKD196-24	IRKC196-24	IRKJ196-24	2400									
IRKD236-04	IRKC236-04	IRKJ236-04	400	230	100	5500	5750	1.27	0.085			UL RECOGNIZED File no: E78996
IRKD236-06	IRKC236-06	IRKJ236-06	600									
IRKD236-08	IRKC236-08	IRKJ236-08	800									
IRKD236-10	IRKC236-10	IRKJ236-10	1000									
IRKD236-12	IRKC236-12	IRKJ236-12	1200									
IRKD236-14	IRKC236-14	IRKJ236-14	1400									
IRKD236-16	IRKC236-16	IRKJ236-16	1600									
IRKD236-18	IRKC236-18	IRKJ236-18	1800									
IRKD236-20	IRKC236-20	IRKJ236-20	2000									
IRKD250-04	IRKC250-04	IRKJ250-04	400	250	100	5900	6180	1.29	0.08	M6		
IRKD250-06	IRKC250-06	IRKJ250-06	600									
IRKD250-08	IRKC250-08	IRKJ250-08	800									
IRKD250-10	IRKC250-10	IRKJ250-10	1000									
IRKD250-12	IRKC250-12	IRKJ250-12	1200									
IRKD250-14	IRKC250-14	IRKJ250-14	1400									
IRKD250-16	IRKC250-16	IRKJ250-16	1600									
IRKD250-18	IRKC250-18	IRKJ250-18	1800									
IRKD250-20	IRKC250-20	IRKJ250-20	2000									
IRKD270-04	IRKC270-04	IRKJ270-04	400	270	100	7500	7850	1.48	0.063			
IRKD270-06	IRKC270-06	IRKJ270-06	600									
IRKD270-08	IRKC270-08	IRKJ270-08	800									
IRKD270-10	IRKC270-10	IRKJ270-10	1000									
IRKD270-12	IRKC270-12	IRKJ270-12	1200									
IRKD270-14	IRKC270-14	IRKJ270-14	1400									
IRKD270-16	IRKC270-16	IRKJ270-16	1600									
IRKD270-18	IRKC270-18	IRKJ270-18	1800									
IRKD270-20	IRKC270-20	IRKJ270-20	2000									
IRKD270-22	IRKC270-22	IRKJ270-22	2200									
IRKD270-24	IRKC270-24	IRKJ270-24	2400									
IRKD270-26	IRKC270-26	IRKJ270-26	2600									
IRKD270-28	IRKC270-28	IRKJ270-28	2800									
IRKD270-30	IRKC270-30	IRKJ270-30	3000									
IRKD320-04	IRKC320-04	IRKJ320-04	400	320	100	8500	8900	1.28	0.063			UL RECOGNIZED File no: E78996
IRKD320-06	IRKC320-06	IRKJ320-06	600									
IRKD320-08	IRKC320-08	IRKJ320-08	800									
IRKD320-10	IRKC320-10	IRKJ320-10	1000									
IRKD320-12	IRKC320-12	IRKJ320-12	1200									
IRKD320-14	IRKC320-14	IRKJ320-14	1400									
IRKD320-16	IRKC320-16	IRKJ320-16	1600									
IRKD320-18	IRKC320-18	IRKJ320-18	1800									
IRKD320-20	IRKC320-20	IRKJ320-20	2000									

(1) Value given for R_{thJC} is per module.
(3) Doubler circuit.
(4) Center tap, circuit common cathode. Contact factory.
(5) Center tap, circuit common anode. Contact factory.
(6) RMS isolation voltage: 3000V-50 Hz.
(7) 100% V_{RRM} reapplied. $T_j = T_j$ max. = 150°C.
(8) For case outline drawing see page 0-2.
(9) V_{FM} at $I_{FM} = I_{F(AV)} \times \pi$, T_j = 25°C.
(10) All devices can be supplied with non toxic material. Add suffix N to part number.

Part Number	V_{RRM} (V)	$I_{F(AV)}$ @ T_C (A)	(T_C °C)	I_{FSM} (5) 50 Hz (A)	60 Hz (A)	(3) V_{FM} (V)	R_{thJC} DC (1) (K/W)	Case Outline Number (6)	Notes	Case Style
IRKE270-04	400	270	100	7500	7850	1.48	0.125	M6	(4) (7)	 UL RECOGNIZED File no: E78996
IRKE270-06	600									
IRKE270-08	800									
IRKE270-10	1000									
IRKE270-12	1200									
IRKE270-14	1400									
IRKE270-16	1600									
IRKE270-18	1800									
IRKE270-20	2000									
IRKE270-22	2200									
IRKE270-24	2400									
IRKE270-26	2400									
IRKE270-28	2600									
IRKE270-30	3000									
IRKE320-04	400	320	100	8500	8900	1.28	0.125			
IRKE320-06	600									
IRKE320-08	800									
IRKE320-10	1000									
IRKE320-12	1200									
IRKE320-14	1400									
IRKE320-16	1600									
IRKE320-18	1800									
IRKE320-20	2000									

(1) Value given for R_{thJC} is per module.
(3) V_{FM} at $I_{FM} = I_{F(AV)} \times \pi$, T_j = 25°C.
(4) RMS isolation voltage: 3000V-50 Hz.
(5) 100% V_{RRM} reapplied. $T_j = T_j$ max. = 150°C.
(6) For case outline drawing see page
(7) All devices can be supplied with non-toxic material. Add suffix "N" to part number.

Diode/Diode

Part Number (3)	(4)	(5)	V_{RRM} (V)	$I_{F(AV)}$ @ T_C (A)	(T_C °C)	I_{FSM} (7) 50 Hz (A)	60 Hz (A)	(9) V_{FM} (V)	R_{thJC} DC (1) (K/W)	Case Outline Number (8)	Notes	Case Style
B40D10	—	B40J10	100	40	85	550	575	1.31	0.60	M2	(2)	 UL RECOGNIZED File no: E78996
B40D20	—	B40J20	200									
B40D40	—	B40J40	400									
B40D60	—	B40J60	600									
B40D80	—	B40J80	800									
B40D100	—	B40J100	1000									
B40D120	—	B40J120	1200									
IRKD56/04	IRKC56/04	IRKJ56/04	400	55	100	1350	1420	1.35	0.325	M4	(2) (11)	 UL RECOGNIZED File no: E78996
IRKD56/06	IRKC56/06	IRKJ56/06	600									
IRKD56/08	IRKC56/08	IRKJ56/08	800									
IRKD56/10	IRKC56/10	IRKJ56/10	1000									
IRKD56/12	IRKC56/12	IRKJ56/12	1200									
IRKD61/14	IRKC61/14	IRKJ61/14	1400	60	90	1220	1270	1.35	0.325			
IRKD61/16	IRKC61/16	IRKJ61/16	1600									
IRKD61/18	IRKC61/18	IRKJ61/18	1800									
IRKD61/20	IRKC61/20	IRKJ61/20	2000									
IRKD71/04	IRKC71/04	IRKJ71/04	400	70	100	1500	1570	1.30	0.285			
IRKD71/06	IRKC71/06	IRKJ71/06	600									
IRKD71/08	IRKC71/08	IRKJ71/08	800									
IRKD71/10	IRKC71/10	IRKJ71/10	1000									
IRKD71/12	IRKC71/12	IRKJ71/12	1200									
IRKD81/14	IRKC81/14	IRKJ81/14	1400	80	88	1350	1410	1.36	0.25			
IRKD81/16	IRKC81/16	IRKJ81/16	1600									
IRKD81/18	IRKC81/18	IRKJ81/18	1800									
IRKD81/20	IRKC81/20	IRKJ81/20	2000									
IRKD91/04	IRKC91/04	IRKJ91/04	400	90	100	1700	1780	1.30	0.22			
IRKD91/06	IRKC91/06	IRKJ91/06	600									
IRKD91/08	IRKC91/08	IRKJ91/08	800									
IRKD91/10	IRKC91/10	IRKJ91/10	1000									
IRKD91/12	IRKC91/12	IRKJ91/12	1200									
IRKD101/14	IRKC101/14	IRKJ101/14	1400	100	87	1700	1780	1.34	0.22			
IRKD101/16	IRKC101/16	IRKJ101/16	1600									
IRKD101/18	IRKC101/18	IRKJ101/18	1800									
IRKD101/20	IRKC101/20	IRKJ101/20	2000									

(1) Value given for R_{thJC} is per module.
(2) RMS isolation voltage: 3500V-50 Hz.
(3) Doubler circuit.
(4) Center tap, circuit common cathode. Contact factory.
(5) Center tap, circuit common anode. Contact factory.
(7) 100% V_{RRM} reapplied. $T_j = T_j$ max. = 150°C.
(8) For case outline drawing see page 0-2.
(9) V_{FM} at $I_{FM} = I_{F(AV)} \times \pi$, T_j = 25°C.
(11) New generation of ADD-A-Pak modules are identified by a "/" (slash) in the part number instead of the "-" of the old part number. Consult factory for new type availability.