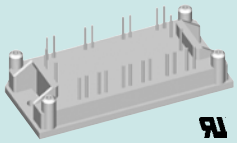
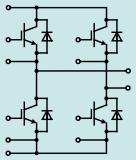
IGBT Modules – Full Bridge & Six-Pack configuration

Full Bridge

IGBT Modules



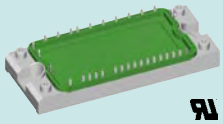
X111 E1-Pack
Package style
Outline drawings on pages O-30...O-52
See data sheet for pin arrangement



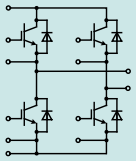
Type ➢ New	V_{CES} V	I_{C25} IGBT T_C = 25°C A	I_{C80} IGBT T_C = 80°C A	$V_{CE(sat)\ typ}$ IGBT T_J = 25°C V	E_{off} IGBT T_J = 125°C mJ	R_{thJC} IGBT K/W	I_{F25} diode T_C = 25°C A	I_{F80} diode T_C = 80°C A	NTC
600 V Trench IGBT									
➢ **MKI 80-06T6K**	600	89	67	1.8	2.8	0.6	105	67	•

Full Bridge

IGBT Modules



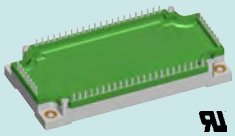
X112 E2-Pack
Package style
Outline drawings on pages O-30...O-52
See data sheet for pin arrangement



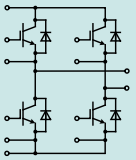
600 V NPT IGBT									
MKI 50-06A7	600	72	50	1.9	1.7	0.55	72	45	
MKI 50-06A7T		72	50	1.9	1.7	0.55	72	45	•
MKI 65-06A7T		100	67	2.0	2.3	0.39	140	85	•
MKI 75-06A7		90	60	2.5	6.3	0.44	140	85	
MKI 75-06A7T		90	60	2.5	6.3	0.44	140	85	•
1200 V Fast NPT IGBT									
MKI 50-12F7	1200	65	45	3.2	2.5	0.35	110	70	
1200 V NPT³ IGBT									
MKI 50-12E7	1200	90	62	1.9	4.0	0.35	110	70	

Full Bridge

IGBT Modules



X113 E3-Pack
Package style
Outline drawings on pages O-30...O-52
See data sheet for pin arrangement



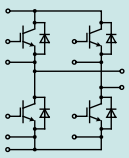
1200 V Fast NPT IGBT									
MKI 100-12F8	1200	65	45	3.2	2.5	0.35	110	70	
1200 V NPT³ IGBT									
MKI 75-12E8	1200	130	90	2.0	7.5	0.25	150	100	
MKI 100-12E8		150	115	2.0	10.0	0.19	200	130	

Full Bridge Six-Pack

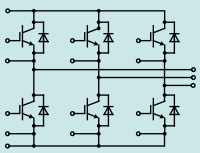
IGBT Modules

X102
Package style
Outline drawings on pages O-30...O-52
See data sheet for pin arrangement

VKI



VWI



Full Bridge									
VKI 50-06P1	600	45	30	1.9	1.0	0.88	36	24	•
VKI 75-06P1	600	72	50	1.9	1.7	0.55	72	45	•
VKI 50-12P1	1200	50	35	2.5	2.8	0.55	50	35	•
Six-Pack									
VWI 20-06P1	600	19	14	1.9	0.30	1.7	21	14	•
VWI 35-06P1	600	35	25	1.9	0.68	1.0	35	24	
VWI 15-12P1	1200	18	14	2.3	1.10	1.2	12	8	•