

# IGBTs

**\* Discrete Products (Up to 1200Vce and 75A) for operating frequencies of up to 40KHz**  
**\* Modules Products 1200V**

IGBT Discrete.....99

IGBT Modules.....100

## IGBT Discrete

### 650V/1200V

Part Number	Package	Number of Functions	Voltage Class max	IC @ 100° max	VCE(sat)	Eon	Eoff Hard Switching	Internal Diagram
			(V)	(A)	(V)	(mj)	(mj)	
MIW30N65FA	TO-247AB	Single	650	30	2.4	1.35	0.45	Fig.1
MIW30N65FLA	TO-247AB	Single	650	30	2.2	1.5	0.8	Fig.1
MIW40N65RA	TO-247AB	Single	650	40	2.4	1.6	0.88	Fig.1
MIW50N65RA	TO-247AB	Single	650	50	2.4	1.49	0.67	Fig.1
MIW50N65F	TO-247AB	Single	650	60	1.95	1.62	0.85	Fig.1
MIW75N65F	TO-247	Single	650	75	1.85	2.64	0.92	Fig.1
MIW15N120FA	TO-247AB	Single	1200	15	2.3	2.2	1.3	Fig.1
MIW25N120FA	TO-247AB	Single	1200	25	2.3	2.8	2.4	Fig.1
MIW40N120FLA	TO-247AB	Single	1200	40	2.3	3.8	1.7	Fig.1

IGBT Modules

1200V

Part Number	Package	Number of Functions	Voltage Class max	IC @ 100° max	VCE(sat)	Eon	Eoff Hard Switching	Internal Diagram
			(V)	(A)	(V)	(mj)	(mj)	
MIP10R12P2TN	P2	PIM three phase input rectifier	1200	10	2.2	0.98	0.48	Fig.2
MIP15R12P2TN	P2	PIM three phase input rectifier	1200	15	2.2	1.42	0.78	Fig.2
MIP25R12E1TN	E1	PIM three phase input rectifier	1200	25	2.25	1.8	1.4	Fig.2
MIP40R12E1TN	E1	PIM three phase input rectifier	1200	40	2.3	4.25	2	Fig.2
MIP50R12E1ATN	E1A	PIM three phase input rectifier	1200	50	2.3	5.42	4.15	Fig.2
MIP50R12E2TN	E2	PIM three phase input rectifier	1200	50	2.3	5.42	4.15	Fig.2
MIP50R12E2ATN	E2A	PIM three phase input rectifier	1200	50	2.3	5.42	4.15	Fig.2
MIP75R12E2TN	E2	PIM three phase input rectifier	1200	75	2.15	5.6	3.6	Fig.2
MIP75R12E2ATN	E2A	PIM three phase input rectifier	1200	75	2.15	5.6	3.6	Fig.2
MIF150R12C2TL	C2	Dual	1200	150	1.85	8.9	9.3	Fig.3
MIF200R12C2TL	C2	Dual	1200	200	2.2	15.8	16.4	Fig.3
MIF300R12C2TL	C2	Dual	1200	300	2.2	17.4	21	Fig.3
MIF450R12C2TL	C2	Dual	1200	450	2.35	23.2	28.5	Fig.3

IGBT Discrete & IGBT Modules

IGBT Discrete

Part Number	Package	Voltage Class max	IC @ 100° max	Status
		(V)	(A)	
MIW40N65FLA	TO-247AB	650	40	Under Development
MIW50N65FLA	TO-247AB	650	50	Under Development
MIW60N65FLA	TO-247AB	650	60	Under Development
MIW60N65RA	TO-247AB	650	60	Under Development
MIW75N65FLA	TO-247AB	650	75	Under Development
MIW10N120FLA	TO-247AB	1200	10	Under Development
MIW40N120FA	TO-247AB	1200	40	Under Development
MIW40N120FLAHE3	TO-247AB	1200	40	Under Development
MIWP40N120FA	TO-247P	1200	40	Under Development
MIWP75N120FA	TO-247P	1200	75	Under Development

IGBT Modules

Part Number	Package	Voltage Class max	IC @ 100° max	Status
		(V)	(A)	
MIP25R12E1ATN	E1	1200	25	Under Development
MIP35R12E1ATN	E1	1200	35	Under Development
MIP100R12E2TN	E2	1200	100	Under Development
MIP150R12E2TN	E2	1200	150	Under Development
MIP15R12P3TN	P3	1200	15	Under Development
MIP25R12P3TN	P3	1200	25	Under Development
MIP35R12P3TN	P3	1200	35	Under Development
MIF200R065C1TF	C1	650	200	Under Development
MIF40R12C1PF	C1	1200	40	Under Development
MIF50R12C1PF	C1	1200	50	Under Development
MIF50R12C1TF	C1	1200	50	Under Development
MIF75R12C1PF	C1	1200	75	Under Development
MIF75R12C1TL	C1	1200	75	Under Development
MIF100R12C1PF	C1	1200	100	Under Development
MIF100R12C1TL	C1	1200	100	Under Development
MIF100R12C1TF	C1	1200	100	Under Development
MIF300R065C2TL	C2	650	300	Under Development
MIF400R065C2TL	C2	650	400	Under Development
MIF150R12C2T	C2	1200	150	Under Development
MIF150R12C2TF	C2	1200	150	Under Development
MIF200R12C2TF	C2	1200	200	Under Development