

2MBI600VN-120-50

IGBT Modules

IGBT MODULE (V series) 1200V / 600A / 2 in one package

Features

High speed switching Voltage drive Low Inductance module structure

Applications

Inverter for Motor Drive AC and DC Servo Drive Amplifier Uninterruptible Power Supply Industrial machines, such as Welding machines



■ Maximum Ratings and Characteristics

● Absolute Maximum Ratings (at Tc=25°C unless otherwise specified)

Items		Symbols	Conditions		Maximum ratings	Units	
	Collector-Emitter voltage	Vces			1200	V	
Inverter	Gate-Emitter voltage	V _{GES}			±20	V	
		Ic	Continuous	Tc=25°C	750		
			Continuous	Tc=100°C	600		
	Collector current	lc pulse	1ms		1200	Α	
		-lc			600		
		-lc pulse	1ms		1200		
	Collector power dissipation	Pc	1 device		3750	W	
Ju	nction temperature	Tj			175		
Op	erating junction temperature (under switching conditions)	T _{jop}			150	°C	
Ca	se temperature	Tc			125		
Storage temperature		Tstg			-40 to +125		
loc	plation voltage between terminal and copper base (*1)	V _{iso}	AC : 1min.		2500	VAC	
isc	between thermistor and others (*2)		AC . IIIIII.		2500	VAC	
80	rew torque Mounting (*3)				3.5	N m	
30	Terminals (*4)	-			4.5	IN III	

Note *1: All terminals should be connected together during the test.

Note *2: Two therminals should be connected together, other terminals should be connected together and shorted to base plate during the test. Note *3: Recommendable value : Mounting : 2.5-3.5 Nm (M5) Note *4: Recommendable value : Terminals : 3.5-4.5 Nm (M6)

● Electrical characteristics (at Tj= 25°C unless otherwise specified)

Items		Cumbala	Conditions		Characteristics			Units
		Symbols			min.	typ.	max.	Units
	Zero gate voltage collector current	Ices	V _{GE} = 0V, V _{CE} = 1200V		-	-	3.0	mA
	Gate-Emitter leakage current	IGES	$V_{CE} = 0V$, $V_{GE} = \pm 20V$		-	-	600	nA
	Gate-Emitter threshold voltage	V _{GE (th)}	V _{CE} = 20V, I _C = 600mA		6.0	6.5	7.0	V
	Collector-Emitter saturation voltage	V		Tj=25°C	-	2.65	3.10	V
		VCE (sat)		Tj=125°C	-	3.00	-	
		(terminal)	V _{GE} = 15V	Tj=150°C	-	3.05	-	
		V _{CE (sat)}	Ic = 600A	Tj=25°C	-	1.85	2.30	
				Tj=125°C	-	2.20	-	
		(chip)		Tj=150°C	-	2.25	-	
	Internal gate resistance	Rg(int)	-		-	1.25	-	Ω
Ē	Input capacitance	Cies	V _{CE} = 10V, V _{GE} = 0V, f = 1MHz		-	48	-	nF
er	Turn-on time	ton	Vcc = 600V	/cc = 600V -				
Inverter		tr	Ic = 600A	-	180	-	nsec	
		tr (i)	V _{GE} = ±15V	-	120	-		
	Turn-off time	toff	$R_G = 0.62\Omega$	$_{\rm s} = 0.62\Omega$ - 1050			-	
		tf	Ls = 80nH	s = 80nH - 110				
	Forward on voltage		V _{GE} = 0V I _F = 600A	Tj=25°C	-	2.50	3.00	V
		V _F		Tj=125°C	-	2.65	-	
		(terminal)		Tj=150°C	-	2.60	-	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Tj=25°C	-	1.70	2.15	
		V _F		Tj=125°C	-	1.85	-	
		(chip)		Tj=150°C	-	1.80	-	1
	Reverse recovery time	trr	I _F = 600A		-	200	-	nsec
	Resistance B value	Ь	T=25°C		-	5000	-	Ω
		R	T=100°C		465	495	520	
를	B value	В	T=25/50°C		3305	3375	3450	K

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● Thermal resistance characteristics

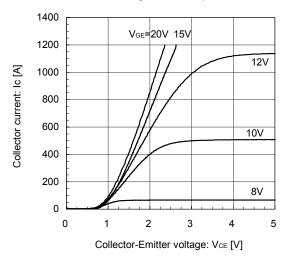
Items	Symbols	Conditions	Characteristics			Units
		Conditions	min.	typ.	max.	Units
Thermal resistance (1device)	Rth(j-c)	Inverter IGBT	-	-	0.04	°C/W
		Inverter FWD	-	-	0.06	
Contact thermal resistance (1device) (*5)	Rth(c-f)	with Thermal Compound	-	0.0167	-	

Note $^{\star}5$: This is the value which is defined mounting on the additional cooling fin with thermal compound.

■ Characteristics (Representative)

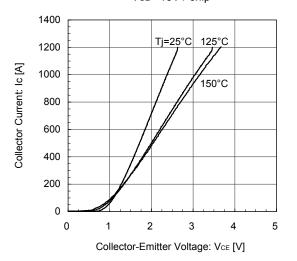
[INVERTER]

Collector current vs. Collector-Emitter voltage (typ.) Tj= 25°C / chip



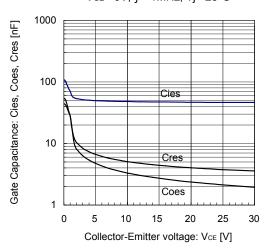
[INVERTER]

Collector current vs. Collector-Emitter voltage (typ.) V_{GE}= 15V / chip



[INVERTER]

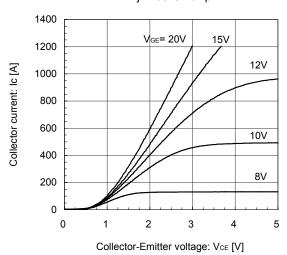
Gate Capacitance vs. Collector-Emitter Voltage (typ.) $V_{GE}=0V, f=1MHz, Tj=25^{\circ}C$



[INVERTER]

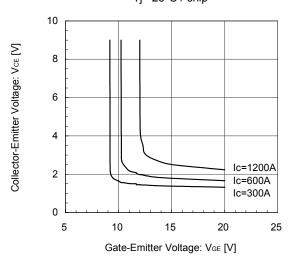
Collector current vs. Collector-Emitter voltage (typ.)

Tj= 150°C / chip



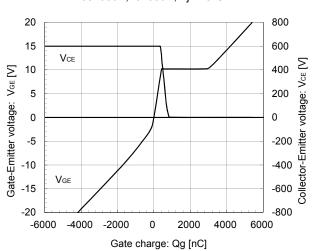
[INVERTER]

Collector-Emitter voltage vs. Gate-Emitter voltage (typ.) Tj= 25°C / chip



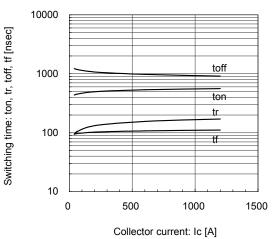
[INVERTER]
Dynamic Gate Charge (typ.)

Vcc=600V, Ic=600A, Tj= 25°C



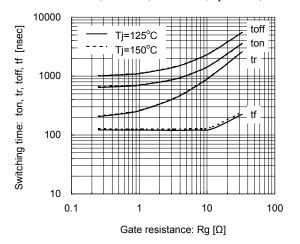
[INVERTER]

Switching time vs. Collector current (typ.) Vcc=600V, $Vge=\pm15V$, $Rg=0.62\Omega$, $Tj=25^{\circ}C$



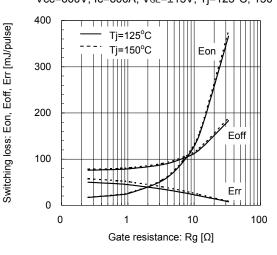
[INVERTER]

Switching time vs. Gate resistance (typ.) Vcc=600V, Ic=600A, V_{GE}=±15V, Tj=125°C, 150°C



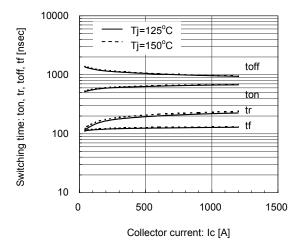
[INVERTER]

Switching loss vs. Gate resistance (typ.) Vcc=600V, Ic=600A, VgE=±15V, Tj=125°C, 150°C



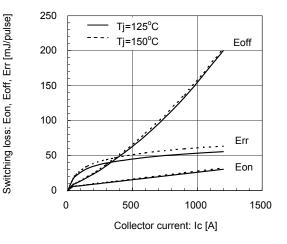
[INVERTER]

Switching time vs. Collector current (typ.) Vcc=600V, VgE= \pm 15V, Rg=0.62 Ω , Tj=125°C, 150°C



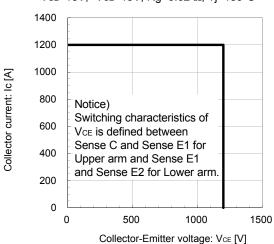
[INVERTER]

Switching loss vs. Collector current (typ.) Vcc=600V, VgE= \pm 15V, Rg=0.62 Ω , Tj=125°C, 150°C



[INVERTER]

Reverse bias safe operating area (max.) +V_{GE}=15V, -V_{GE}=15V, Rg=0.62 Ω , Tj=150°C



[INVERTER]

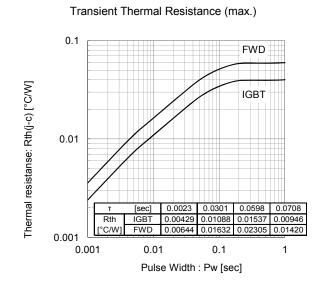
[INVERTER] Forward Current vs. Forward Voltage (typ.) 1400 1200 Tj=25°C Forward current: IF [A] 1000 800 600 125°C 400 200 150°C 0

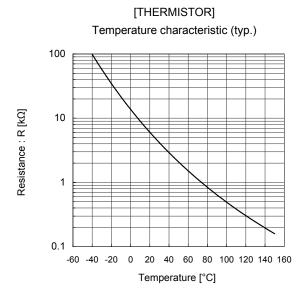
0 2 Forward on voltage: VF [V]

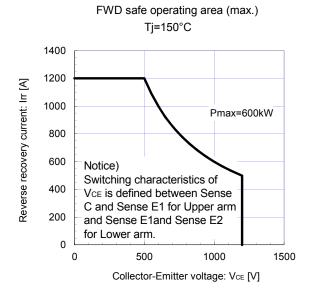
[INVERTER] Reverse Recovery Characteristics (typ.)

Reverse Recovery Characteristics (typ.) Vcc=600V, V_{GE}=±15V, Rg=0.62Ω, Tj=25°C 10000 Reverse recovery current: Irr [A] Reverse recovery time: trr [nsec] 1000 Irr trr 100 10 0 500 1000 1500 Forward current: IF [A]

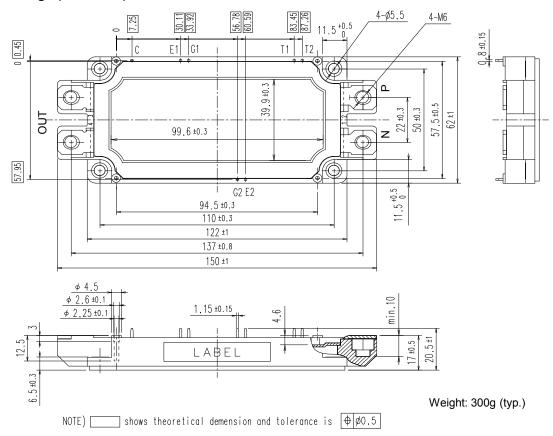
Vcc=600V, V_{GE}=±15V, Rg=0.62Ω, Tj=125°C, 150°C 10000 Tj=125°C Reverse recovery current: Irr [A] Reverse recovery time: trr [nsec] Tj=150°C 1000 100 10 0 500 1000 1500 Forward current: IF [A]



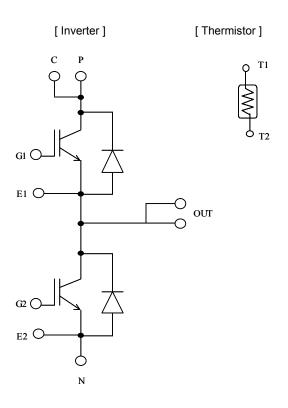




■ Outline Drawings (Unit : mm)



■ Equivalent Circuit



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- Communications equipment (terminal devices)
- Measurement equipment

- Machine tools
- Audiovisual equipment
- Electrical home appliances
- Personal equipment
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- Industrial robots etc.
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- devices Safety devices

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Nuclear control equipment

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IGBT Modules

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