

ماژول پل IGBT یونیورسال ۲۵ آمپر ۱۲۰۰ ولت

این ماژول با استفاده از پل IGBT شرکت Fuji، هیت سینک، بانک خازنی لینک DC و همراه یک برد الکترونیکی عرضه شده است که می تواند رابط با درایور، برد کنترل کننده و برد اندازه گیر باشد. به این ترتیب کاربر می تواند به سادگی تنها نرم افزار کنترلی خود را در پروسور دلخواه اجرا و مبدل خود را بسازد.

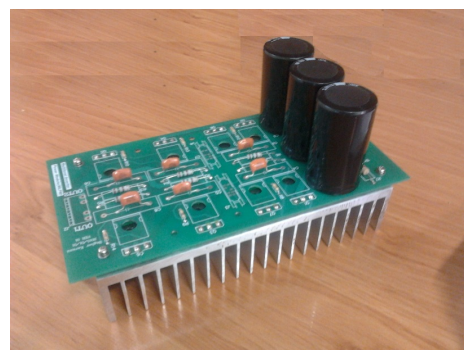
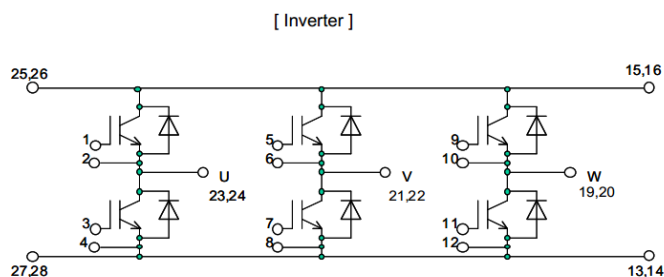
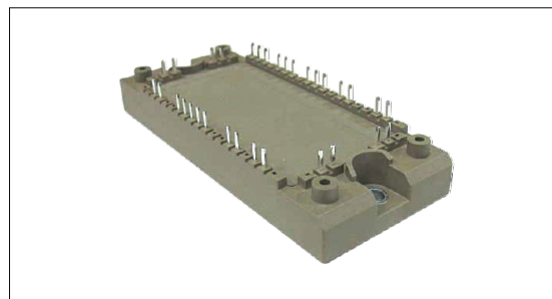
IGBT MODULE (V series) 1200V / 25A / PIM

■ Features

- Low $V_{CE(sat)}$
- Compact Package
- P.C.Board Mount Module
- Converter Diode Bridge Dynamic Brake Circuit
- RoHS compliant product

■ Applications

- Inverter for Motor Drive
- AC and DC Servo Drive Amplifier
- Uninterruptible Power Supply



Maximum Ratings and Characteristics

Absolute Maximum Ratings (at $T_c=25^\circ\text{C}$ unless otherwise specified)

Items	Symbols	Conditions	Maximum ratings	Units	
Inverter	Collector-Emitter voltage	V_{CES}	1200	V	
	Gate-Emitter voltage	V_{GES}	± 20	V	
	Collector current	I_C	Continuous $T_c=100^\circ\text{C}$	25	A
		I_{CP}	1ms $T_c=80^\circ\text{C}$	50	
		$-I_C$		25	
	$-I_{C_pulse}$	1ms	50		
Collector power dissipation	P_C	1 device	170	W	
Brake	Collector-Emitter voltage	V_{CES}	1200	V	
	Gate-Emitter voltage	V_{GES}	± 20	V	
	Collector current	I_C	Continuous $T_c=80^\circ\text{C}$	25	A
		I_{CP}	1ms $T_c=80^\circ\text{C}$	50	
	Collector power dissipation	P_C	1 device	170	W
Repetitive peak reverse voltage (Diode)	V_{RRM}		1200	V	
Converter	Repetitive peak reverse voltage	V_{RRM}	1600	V	
	Average output current	I_O	50Hz/60Hz, sine wave	25	A
	Surge current (Non-Repetitive)	I_{FSM}	10ms, $T_j=150^\circ\text{C}$	155	A
	I^2t (Non-Repetitive)	I^2t	half sine wave	120	A^2s
	Junction temperature	T_j	Inverter, Brake Converter	175 150	$^\circ\text{C}$
Operating junction temperature (under switching conditions)	T_{JOP}	Inverter, Brake	150		
		Converter	150		
Case temperature	T_C		125		
Storage temperature	T_{stg}		-40 to +125		
Isolation voltage	between terminal and copper base (*1)	V_{iso}	AC : 1min.	2500	VAC
	between thermistor and others (*2)				
Screw torque	Mounting (*3)	-	M5	3.5	N m

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

Note *2: Two thermistor terminals should be connected together, other terminals should be connected together and shorted to base plate during the test.

Note *3: Recommendable value : 2.5-3.5 Nm (M5)