

VISHAY INTERTECHNOLOGY, INC.



IGBT MODULES

MTP

ECONO-2

INT-A-Pak

SOT-227

特许专业代理商

RONICS LIMITED

威 柏 电 子 有 限 公 司

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High-efficiency IGBT modules from Vishay Intertechnology feature industry-standard outlines with a choice of pt and npt IGBT technologies. Configured as single switches, inverters, choppers, half-bridges, or in custom configurations, these modules are the ideal choice for high-frequency power applications that demand high-efficiency performance. They are designed for use as a main switching device in switchmode power supplies, uninterruptible power supplies, industrial welding, motor drives, and power factor correction systems. Typical applications include boost and buck converters, forward and double forward converters, half bridges, full bridges (H-bridge), and three-phase bridges. Low thermal resistance allows Vishay IGBT modules to operate at higher case temperatures while maintaining the operating junction temperature within safe limits. Electrically isolated from the circuit, the base plate is exposed, allowing for direct mounting to the heat sink. With improved current sharing and lower operating junction temperatures, designers can now achieve higher system reliability. Vishay IGBT modules are 100 % lead (Pb)-free and RoHS-compliant and meet industry standards for safety including UL approval.

Features

- Wide range of industry-standard package styles
- Direct mount on heat sink
- Choice of pt and npt IGBT technologies
- Low-V_{ce(on)} IGBT
- Switching frequency from 1 kHz to 150 kHz
- Optimized anti-parallel ultra-fast diode with soft recovery characteristics
- Rugged transient performance
- High isolation voltage (2500 V)
- 100 % lead (Pb)-free and RoHS-compliant
- · Low thermal resistance
- Wide operating temperature range (– 40 °C to + 150 °C)
- UL-approved

Options

- Short-circuit capability available on many configurations
- Optional SMD integrated thermistor
- Customizable for specific application needs

Applications

- Industrial high-frequency welding
- Switchmode power supplies
- Uninterruptible power supplies
- Motor drives
- Power factor correction

Product	Package Model	Maximum Dimensions, LWH (mm)	Pin-out	Number of Connectors	Circuit Configurations Available	Voltage Range (V)	Current Ratings at 25 °C (A)	Frequency Speed Grade (kHz)	Part Number Series
IGBT Technology — npt with short circuit capability or pt silicon available									
	SIP	62.4 x 22 x 7.9	Solderable pins	Up to 19	6PAK inverter	600	8 – 30	1 – 60	CPV
					Customized configuration				
*	MTP	63.5 x 32.5 x 16	Solderable pins	Up to 12	Half bridge	600 – 1200	30 – 50	8 – 150	MT060WHTAPBF MT120UFAPBF MT060ULSTAPBF
					Full bridge				
					Chopper				
					Customized				
					configuration				
	IAP	94 x 35 x 29 107.8 x 45.4 x 17	Screwable Solderable pins	7 Up to 50	Half bridge	600 – 1200		dc - 60 8 - 60	GATS GBTS GBSS GBXF GBYF GBRF
DAD					Single switch				
					Customized				
					configuration 6PAK inverter				
	ECONO-2				4PAK				
					PIM (bridge-				
					brake-inverter)				
					Customized				
					configuration				
**	SOT-227	38.3 x 25.7 x 12.3	Screwable	4	Single switch Chopper	600 – 1200	50 – 200	dc – 150	GASAP GADAP GBLAP GBNAP GBDAP
					Customized configuration				









			MTP	ECONO-2			
Configuration	Voltage (V)	Current Rating (A) @ 25 °C	*				
			8 kHz – 150 kHz	8 kHz – 60 kHz			
470.14	1000	50		GB50YF120N			
4PAK	1200	75		GB75YF120N			
		8					
	600	15					
		20		GB20XF60K			
		30		GB30XF60K			
		50		GB50XF60K			
6PAK		75		GB75XF60K			
		10	GB05XP120KTPBF	GB10XF120K			
		15	GB15XP120KTPBF	GB15XF120K			
	1200	25		GB25XF120K			
		35		GB35XF120K			
		50		GB50XF120K			
		10		GB10RF60K			
		15		GB15RF60K			
	600	20		GB20RF60K			
PIM with Thermistor		30		GB30RF60K			
T IIII WILLI TITOTINICO		50		GB50RF60K			
		10		GB10RF120K			
	1200	15		GB15RF120K			
		25		GB25RF120K			
	500	19	19MT050XFAPBF				
Full Bridge	600	25	25MT060WFAPBF				
	1200	20	20MT120UFAPBF				
		50	50MT060WHTAPBF				
		75	70MT060WHTAPBF				
	600	100					
		150					
		200					
Half Bridge		200	4014740014/14887				
		40	40MT120WHAPBF				
	1000	75					
	1200	100					
		125					
		150 100					
	600	200					
Cinale Curitele	600	400					
Single Switch		64					
	1200	75					
	600	50	50MT060ULSTAPBF				
	000	70	SOM TOUGHE IAI BI				
Chopper		100					
Эпорры		100 – 150					
	1200	50					

Key: Frequency Speed Grade

Released

In Development



Package



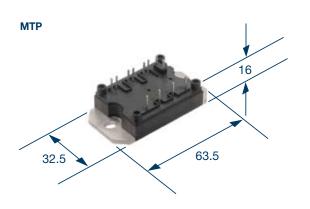


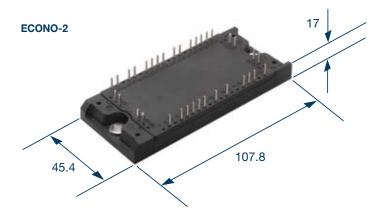
INT-A-Pak			SIP	SOT-227				
				&				
dc – 60 kHz		8 kHz – 25 kHz	8 kHz – 60 kHz	1 kHz – 8 kHz	dc – 8 kHz	8 kHz – 150 kHz		
		OD) (OOOMALCEDE	ODV/000MALIDDE	OD//2001/14EDDE				
		CPV362M4KPBF CPV363M4KPBF	CPV362M4UPBF CPV363M4UPBF	CPV362M4FPBF CPV363M4FPBF				
		CPV364M4KPBF	CPV364M4UPBF	CPV364M4FPBF				
		Or voo in in a Bi	OT VOC IM TOT BY	CI VOO III II I BI				
GA100TS60SFPBF	GB100TS60NPBF							
0.4.000,700,001,100,00	GB150TS60NPBF							
GA200TS60UPBF GA200HS60S1PBF	GB200TS60NPBF							
GAZUUHS0USTPBF								
GA75TS120UPBF								
GA100TS120UPBF	GB100TS120NPBF							
GA125TS120UPBF								
	GB150TS120NPBF							
						GB100DA60UP		
CA40000000000					GA200SA60SP	GA200SA60UP		
GA400SS60SPBF						GB75DA120UP		
						GB/SDA1200P		
						GB70LA60UP GB70NA60UP		
						GA100NA60UP		
						5 17 557 (7 1505)		
						GB50LA120UX GB50NA120UX		
Please Note: Customized configuration available for all packages upon demand.								

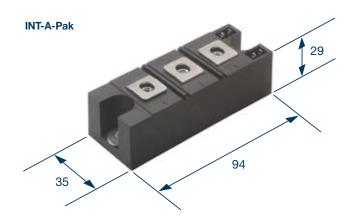


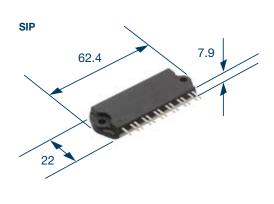


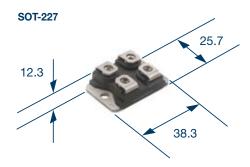
Dimensions in Millimeters













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