

# **VP005837**

# ASS CARD -2 CH IGBT DRIVER DB (±10A)



## FEATURES

- Low Power dual channel driver 2X1 Watt Output Power
- ±2.5A source & 5A sink gate current.
- +15V/-5V Drive up to 2100V DC IGBT Module Short circuit clamping
- Active shut down
- 2A Internal Active Miller clamp function
- 400mA soft turn off when fault happen
- 5KVrms isolation
- Switching frequency up to 85 KHz
- Less than 130 ns propagation delay time
- Primary/Sec. Supply under voltage lockout
- Vce monitoring for short circuit protection
- 200 ns response time fast DESET protection
- Isolated analog sensor with PWM output for
- 1. Temperature sensing with NTC, PTC or thermal diode
- 2. High voltage DC-Link or phase voltage

# **APPLICATION OF USES**

- Drives
- Ballast
- Converter Inverter

- UPS
- Solar Inverter
- Medical X-Ray

## **ADVANTAGES**

- On board isolated DC-DC converter No need of separate SMPS.
- Interface for 3.3V...15 V logic level Direct compatible with any Controller.
- Common fault feedback signal to interface with controller Avoid Extra component.
- Field configurable blocking time Flexibility in your hand, use any make IGBT.
- 5700V Safe isolation
- User Selectable Rg-on & off



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#### **Electrical Isolation**

Test voltage (50 Hz/60 sec) Primary to secondary side : 5.7 KV Secondary to secondary side : 5.7 KV

#### **Timing Characteristic**

Turn-on delay t : 185 ns Turn-off delay t : 185 ns Output rise time t : 33 ns Output fall time t : 27 ns Transmission delay of fault state :500ns

#### Driving Capability : Any Make

All usual SIC-MOSFET up to 300A /1700V. Driving power depends on switching frequency so in case of any doubt during selection process pl. contact us.

#### LED Indication

Power ON: Green (Normally OFF, ON during Power supply fault) ERROR : RED (ON during Under Voltage / DESAT/ IGBT Fault)

#### Environmental

Working temperature : -40 to 105 °C Storage temperature : -40 to 90 °C

#### Interfacing with Control Circuit

14- Pin input FRC Pin Details:			
1,5,6,13 4 7 10,11,12	N.C. PWM_L APW_H GND	2 3 8,9 14	PWM_H ERROR +15V APW_L
CON2-7 Pin Connector			
1 2 3 4 5 6	Error PWML G(-ground PWMH G(-ground +15V DC	I) I) Commo	n ground