

STK551U362A-E

Intelligent Power Module (IPM), 600 V, 10 A

Product Overview

For complete documentation, see the data sheet.

This Intelligent Power Module (IPM) is a highly integrated device containing all High Voltage (HV) control from HV-DC to 3-phase outputs in a single small SIP module. Output stage uses IGBT / FRD technology and implements Under Voltage Protection (UVP) and Over Current Protection (OCP). Internal Boost diodes are provided for high side gate boost drive.

Features

- Over-current Protection Circuit
- Under-voltage lockout for all channels
- Upper / lower ON prevention circuit
- Thermistor for case temperature monitor
- Direct input of CMOS level control signals without an insulating is possible
- Certification : UL1557 (File Number : E339285)

Applications

- 3-phase Motor

Benefits

- Fast speed protection is possible (Self protection)
- All IGBT Gate shutdown at abnormal for safety
- System malfunction can reduce by noise
- High precision monitor is possible
- No need photo-coupler design

End Products

- HVAC
- Clothes Washer / Dryer
- Dish Washer
- Refrigerator
- Motor Control System

Application Diagram

Sample Application Circuit

