

## STK554U362C-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) with a Fault Detection output flag. 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 temperature monitor
- Direct input of CMOS level control signals without an insulating

### Applications

- Motor Driver modules

### Benefits

- Having separate emitters and VITRIP terminal for 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

- Motor Control System
- Industrial / General Control System
- HVAC
- Clothes Washer / Dryer
- Dish Washer

# Application Diagram

## Sample Application Circuit

