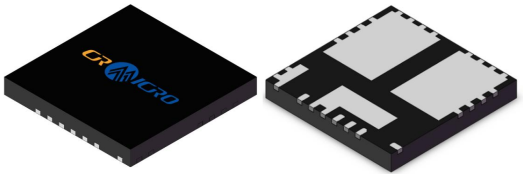
Description

CRM60TD05R1 is half-bridge Modules (IPM) designed for advanced appliance motor drive applications such as energy efficient fans and pumps.
CRM60TD05R1 Integrated 2 fast recovery MOSFETs and 1 high voltage gate driver in a familiar package. The modules are optimized for low EMI characteristics.

Features

- 600V half-bridge including high voltage gate drivers
- HVIC Temperature-Sensing Built-In for temperature Monitoring
- Works with 3.3V/5V MCU, Active-High interface
- HVIC for Under-voltage Protection
- Integrated bootstrap functionality
- Isolation Rating 1500V



QFN7x7

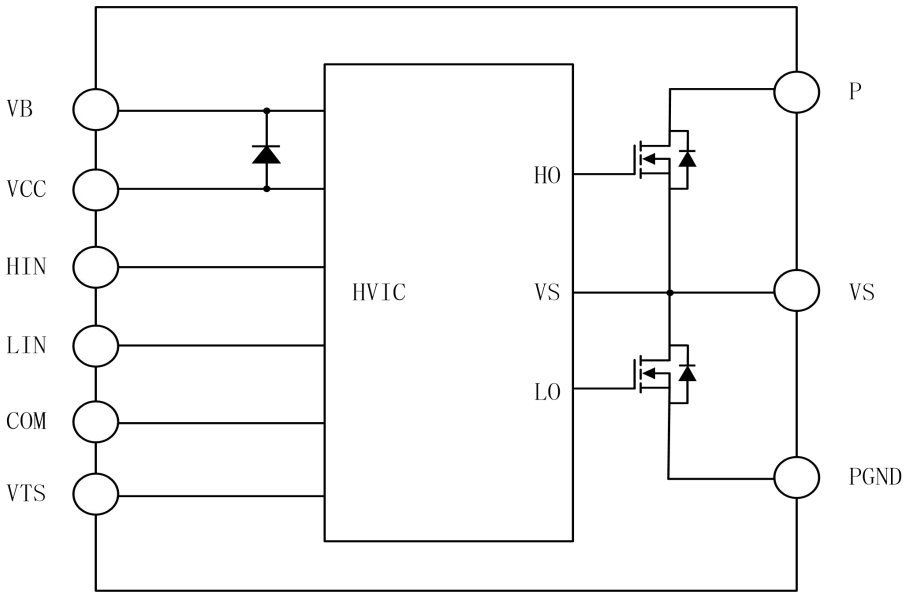
Applications

- Energy efficient fans
- Pumps

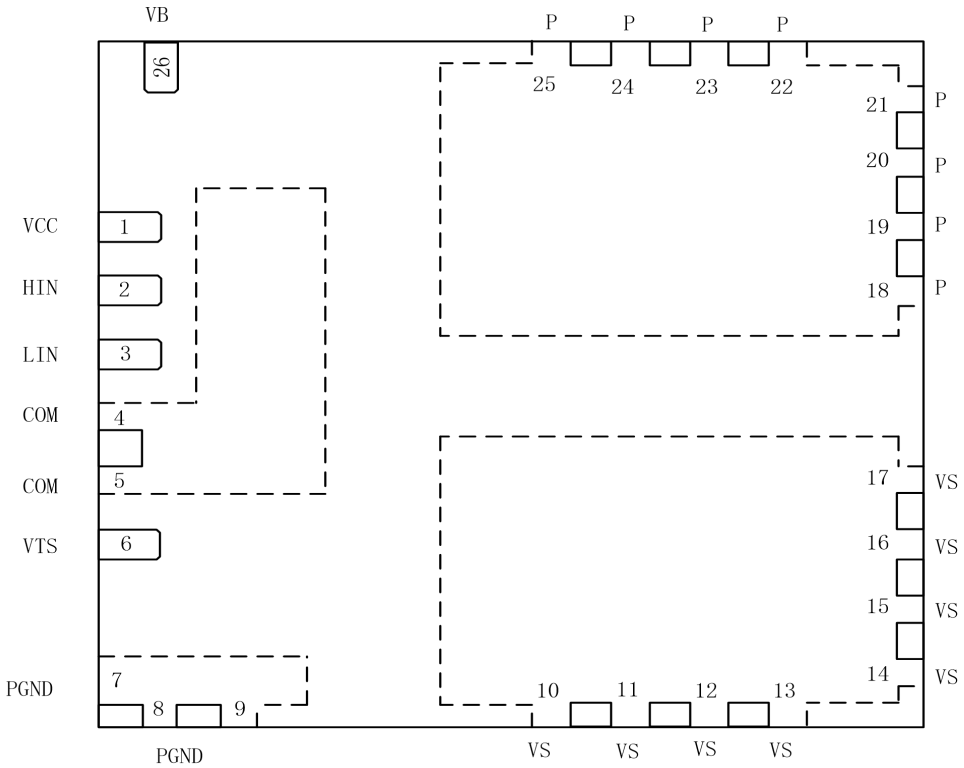
Package Marking and Ordering Information

Part #	Marking	Package	Packing	Quantity	V_{TS}
CRM60TD05R1	CRM60TD05R1	QFN7x7	Taping	3000	Yes

Internal Electrical Schematic

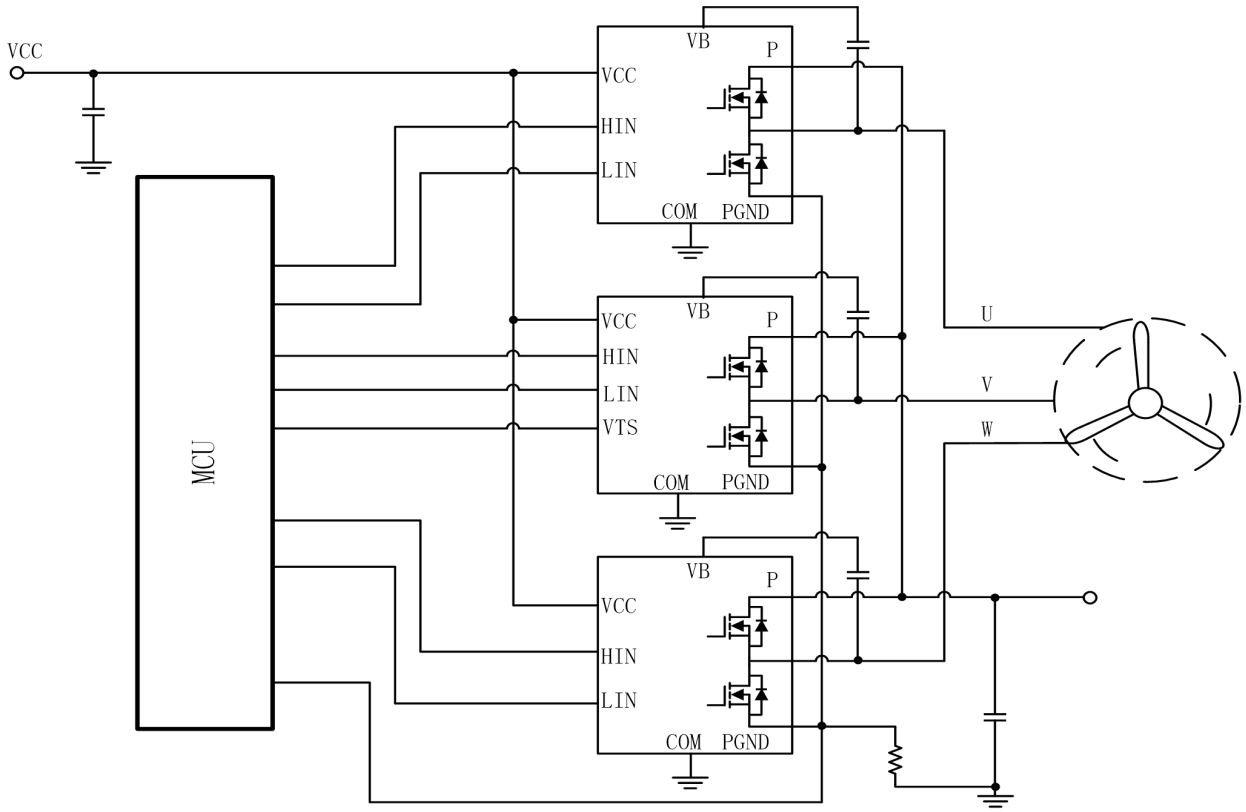


Module Pin-Out Description



Pin Number	Pin Name	Description
1	VCC	Power supply for Low side
2	HIN	Logic Input for High Side Gate Driver
3	LIN	Logic Input for Low Side Gate Driver
4,5	COM	Logic Ground
6	VTS	Temperature-sensing Voltage Output
7,8,9	PGND	Source for low side MOSFET
10,11,12,13,14,15,16,17	VS	High Side Floating Offset Voltage
18,19,20,21,22,23,24,25	P	DC Bus Voltage Positive
26	VB	High Side Floating Supply Voltage

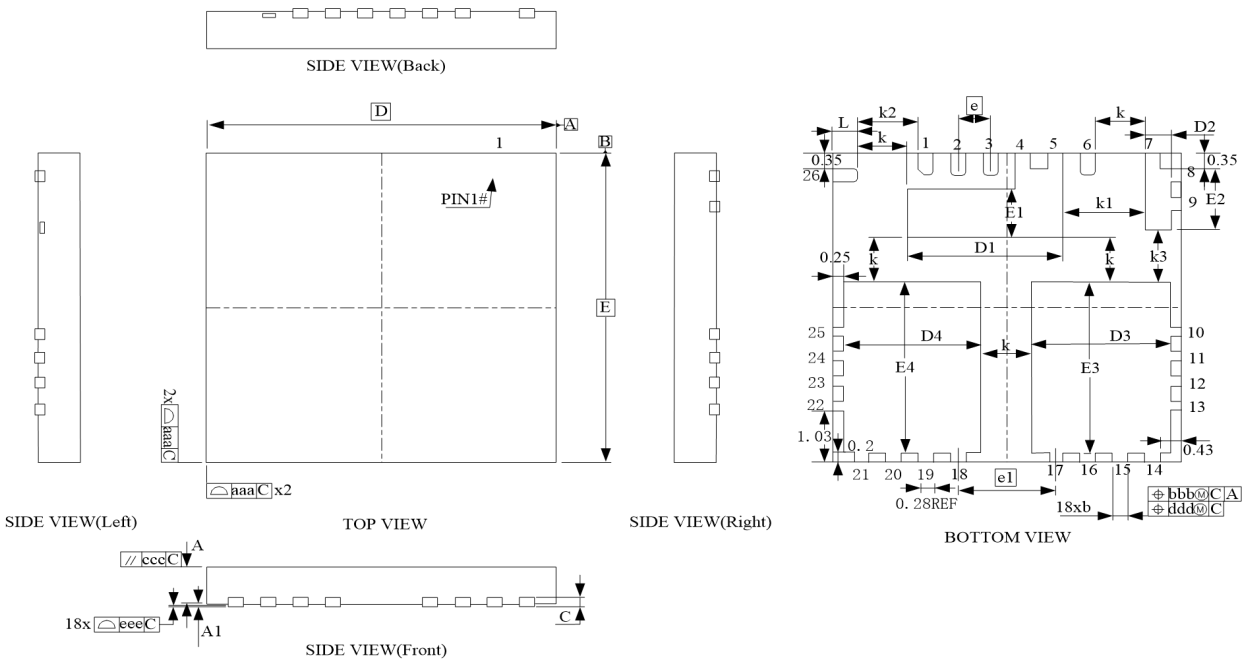
Application Circuit



Package Outline

QFN7x7

UNIT:mm



DIM / SYMBOL	MIN.	NOM.	MAX.	DIM / SYMBOL	MIN.	NOM.	MAX.
A	0.75	0.85	0.95	E4	3.804	3.904	4.404
A3	-	0.203 REF	-	e	0.65BSC		
A1	-	-	0.05	e1	1.95BSC		
b	0.25	0.30	0.35	L	0.45	0.50	0.55
D	7.00BSC			k	-	1.00	-
E	7.00BSC			k1	-	1.65	-
D1	3.025	3.125	3.225	k2	-	1.225	-
E1	0.996	1.096	1.196	k3	-	1.170	-
D2	0.425	0.525	0.625	aaa	0.15		
E2	1.28	1.38	1.48	bbb	0.10		
D3	2.65	2.75	2.85	ccc	0.10		
E3	3.804	3.904	4.004	ddd	0.05		
D4	2.65	2.75	2.85	eee	0.08		