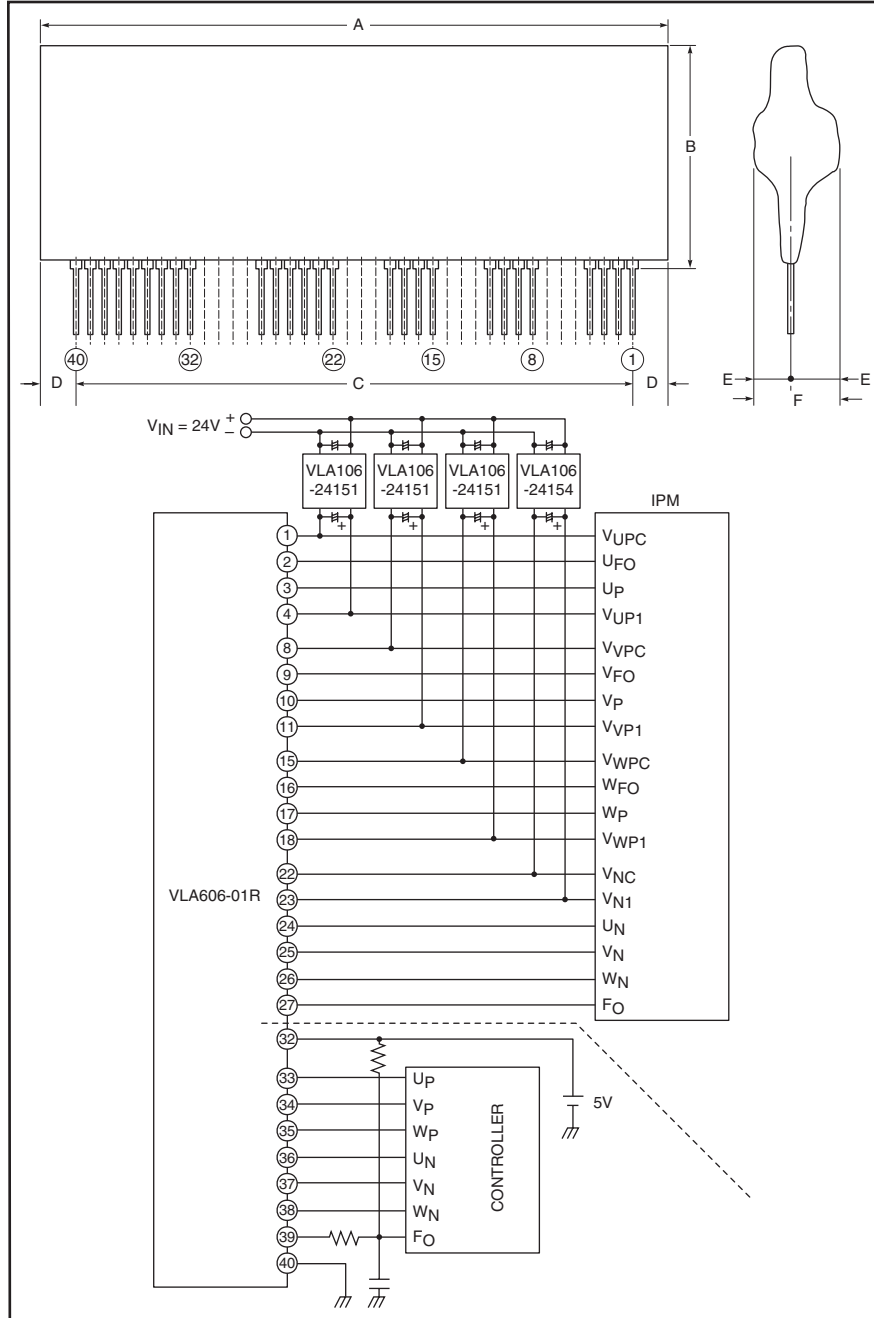


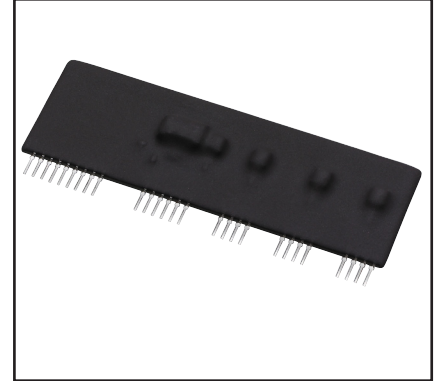
IPM Drive Interface Module



Outline Drawing and Circuit Diagram

Dimensions	Inches	Millimeters
A	3.38	86.0
B	1.22	31.0
C	3.07	78.0
D	0.16	4.0
E	0.26	6.5
F	0.47	12.0

Note: All dimensions listed are maximums except C.



Description:

VLA606-01R is an interface module for IPM drive.

Features:

- ☐ Contains 6 Opto-couplers for IPM Drive and 4 Opto-couplers for Fault Signal for 3-Phase Inverter
- ☐ Reverse Input Voltage Protection
- ☐ SIP Saves More Space on Mother Board
- ☐ Pin Arrangement Matches IPM's Pin Arrangement
- ☐ Electrical Isolation Voltage Between Input and Output (2500 V_{rms} for 1 Minute)

Application:

To drive IPMs

Recommended IPM Modules:

PM Series Modules

VLA606-01R
IPM Drive Interface Module

Absolute Maximum Ratings, $T_a = 25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	VLA606-01R	Units
Supply Voltage1 (Between Pins 4-1, 11-8, 18-15, 23-22)	V_{CC1}	-0.5 ~ 20	Volts
Supply Voltage 2 (Between Pins 39-40)	V_{CC2}	-6 ~ 40	Volts
Input Current 1 (Between Pins 32-33, 32-34, 32-35, 32-36, 32-37, 32-38)	I_{F1}	20	mA
Input Current 2 (Between Pins 4-2, 11-9, 18-16, 23-27)	I_{F2}	20	mA
Operating Temperature (No Condensation Allowable)	T_{opr}	-20 to 70	$^\circ\text{C}$
Storage Temperature (No Condensation Allowable)	T_{stg}	-25 to 100	$^\circ\text{C}$
Input-Output Isolation Voltage (Primary – Secondary AC, 1 Min.)	V_{iso}	2500	V_{rms}

Electrical and Mechanical Characteristics, $T_a = 25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Output Low Voltage 1	V_{OL1}	Refer to Test Conditions	—	—	0.5	Volts
Turn-on Time 1	t_{ON}		TBD	TBD	TBD	μs
Turn-off Time 1	t_{OFF}		TBD	TBD	TBD	μs
Output Low Voltage 2	V_{OL2}		—	—	0.4	Volts
Turn-on Time 2	t_{ON2}		TBD	TBD	TBD	μs
Turn-off Time 2	t_{OFF1}		TBD	TBD	TBD	μs

Test Conditions

