

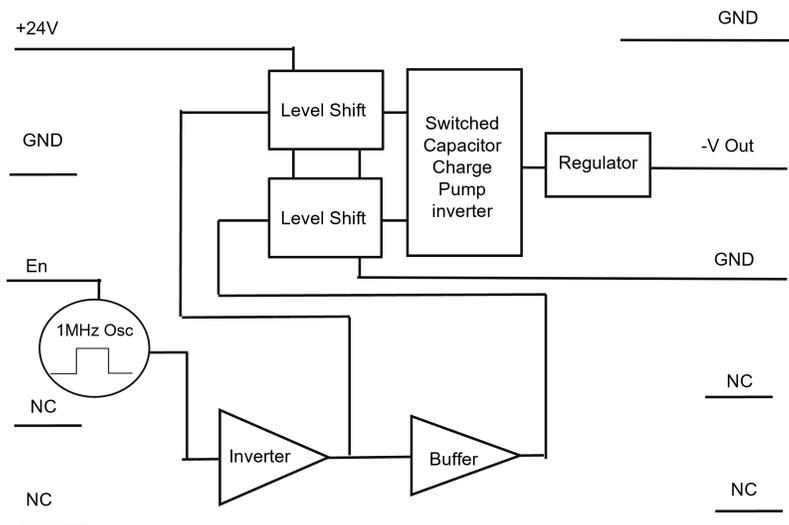
GENERAL DESCRIPTION

The MCI240N400D10A is a negative voltage generator suited for supplying high power GaN switch.drivers. The -40V generator has integrated charge pump and regulated output to supply 15mA minimum.

FEATURES

- 15 mA output
- small .250 square DFN
- single +24V supply

FUNCTION BLOCK DIAGRAM

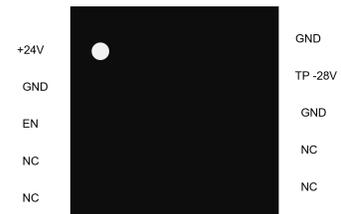


MECHANICAL

The MCI240N400D10A consists of multiple components mounted to a laminate substrate and encapsulated with a low moisture epoxy compound using a transfer mold process. This forms a .25 square 10 lead DFN SMT assembly designed for easy integration into an integrated microwave assembly.

ECCN Code EAR99

MCI240N400D10A is RoHS 3 (EU 2015/863) compliant.



PIN CONNECTIONS

Connect 1 uF capacitor from PIN 9 to ground for minimize ripple

- 1 +24V
- 2 Ground
- 3 Enable
- 4 NC
- 5 NC
- 6 NC
- 7 NC
- 8 Ground
- 9 Out -40V
- 10 Ground

TRUTH TABLE

En Output

0 0V

1 -40V

ELECTRICAL SPECIFICATIONS

V_{pos} +24V, TEMP 25C, PRR

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
ENVIRONMENTAL						
Enviro	Operating Temperature		-45		115	Deg C
Enviro	Storage Temperature		-55		150	Deg C
INPUT						
En	Enable high	3.3V logic	2.5		3.5	V
En	Enable low	3.3V logic	0		.5	
OUTPUT						
VO	Voltage Output	16 mA load	-39..8	-40	-40.6	V
Npk	Noise	1 uF external Bypass Capacitor mounted <.050" from package			50	Mv pk
SUPPLY						
V+	Supply Voltage			24		V
IC_pos	Positive Rail Current			45		mA

ESD Sensitivity HBM Class1B

MECHANICAL SPECIFICATIONS

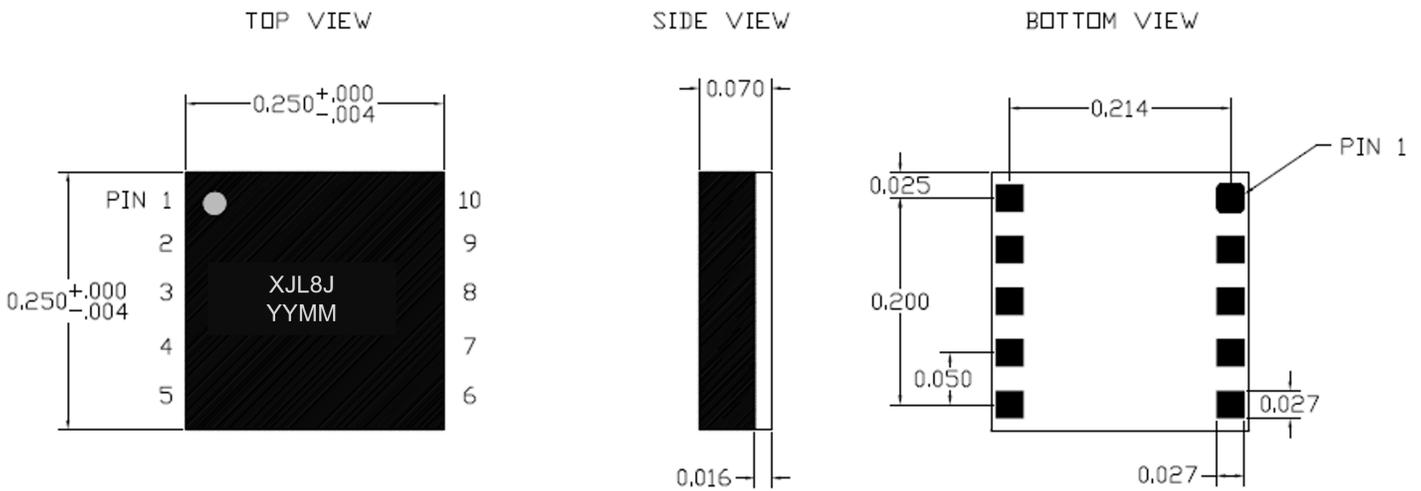
DRAWING NOT TO SCALE. DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.

MSL RATING 4 (refer to JEDEC STD 033B)

Shipping Packaging
4" Waffle Packs/trays

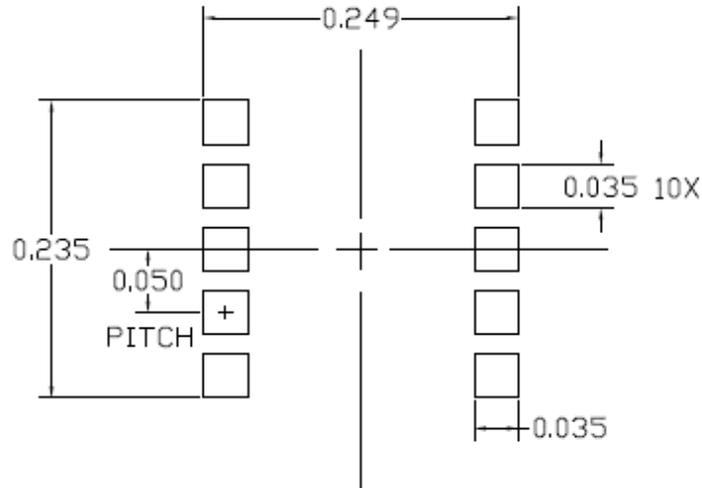
MARKING SPECIFICATIONS

Part Number: XJL8J
Date Code: YYMM



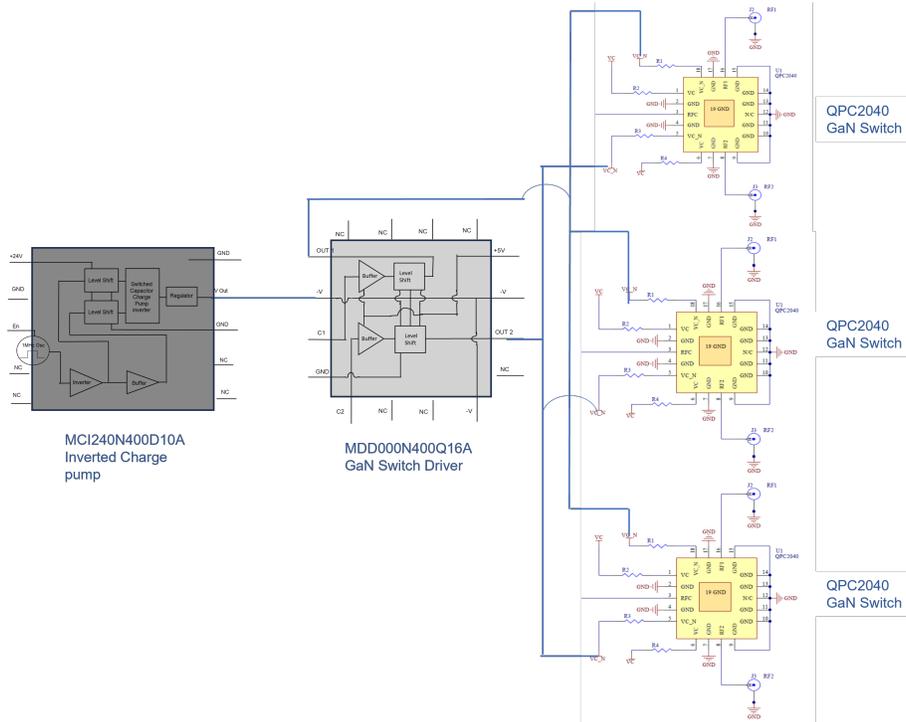
FOOTPRINT

RECOMMENDED
MOUNTING FOOTPRINT



DIMENSIONS: INCHES

TYPICAL APPLICATION



SOLDER PROFILE

Sn63Pb37 reflow profile

