

TRUTH TABLE

IN1A	IN 1B	IN 2A	IN 2B	IN 3A	IN 3B	IN 4A	IN 4B	IN5A	IN5B	IN6A	IN6B	OUT 1	OUT 2	OUT 3	OUT 4	OUT5	OUT6
0	1	0	1	0	1	0	1	0	1	0	1	+V	+V	+V	+V	+V	+V
1	1	1	1	1	1	1	1	1	1	1	1	-V	-V	-V	-V	-V	-V
0	0	0	0	0	0	0	0	0	0	0	0	-V	-V	-V	-V	-V	-V
1	0	1	0	1	0	1	0	1	0	1	0	+V	+V	+V	+V	+V	+V

ELECTRICAL SPECIFICATIONS

Vpos +5V, Vneg -12V, TEMP 25C, PRR 5MHz

	SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT							
	VI_hi	Voltage Input High	TTL	2.5	3.5	5.0	V
	VI_low	Voltage Input Low	TTL	0	.8	1.8	V
OUTPUT							
	VO_hi	Voltage Out High	open load	4.0	4.3	4.9	V
	VO_low	Voltage Out Low	open load -V	-11.0	-11.3	-12	V
	IO_hi	Current Out High	steady state into 1V diode load +/-5V		25		mA
	IO_low	Current Out Low	steady state into 1V diode load +/-5V		25		mA
	lopk	Current Peak Output	sink and source	+/-300			mA
SUPPLY							
	IQC_pos	Quiescent Current Positive			40	50	mA
	IQC_neg	Quiescent Current Negative			-40	-50	mA
DYNAMIC							
	TSW_rise	Switching Speed On	opposed 1N4148 diode load		10	12	nS
	TSW_fall	Switching Speed Off	opposed 1N4148 diode load		12	15	nS
	PRR	Pulse Repetition Rate	Max, 10pF load		.5	1	MHz

ESD Sensitivity HBM Class1B

MECHANICAL SPECIFICATIONS

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

Package Code 5
Type: Housing; Lead Finish: Gold
Length .645 in MAX; Width .645 in MAX; Height .135 in MAX

MARKING SPECIFICATIONS

Logo: IMPELLIMAX
Part Number: XS625A5
Date Code: YYWW

