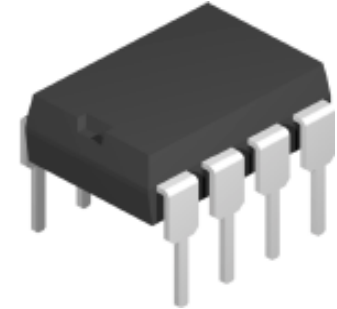


Interface Transformer

General Description

The TX-02-4400PI/JI is a dual winding interface transformer designed to be used with the IXYS IXBD4410/IXBD4411 chip set. This ISOSMART chip set controls the gates of two Power MOSFETs or IGBTs connected in a half-bridge (phase-leg) configuration. This signal transformer transfers information between the two chips with greater than 2500V (RMS) isolation.

The TX02-4400PI is available in the standard 8-pin DIP package (TX02-4400PI) and the 8-pin DIP Gullwing package (TX02-4400JI)


TX02-4400PI

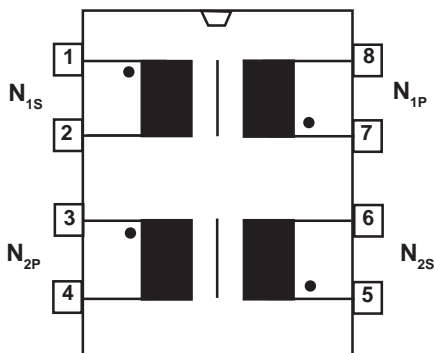
TX02-4400JI

Preliminary Data Sheet

Symbol	Test Conditions	Ratings	
$N_P:N_S$	Primary to Secondary Turns Ratio	3:1	
L_P	$f = 100 \text{ kHz}$ (Note 1)	0.97	μH
L_S	$f = 100 \text{ kHz}$ (Note 1)	0.1	μH
C_S	$f = 100\text{kHz}$; primary to secondary (Note 1)	0.5	pF
V_{ISOL}	Primary to secondary, 50/60 Hz, RMS, $t = 1 \text{ minute}$	2500	V
$T_{\text{OP, STG}}$	Operating and storage Temperature	-55 ... +125	$^{\circ}\text{C}$
T_L	1.6 mm (0.063 in) from case for 10 s	300	$^{\circ}\text{C}$
Weight		2	g

Notes: 1. Nominal value

Pin Configuration



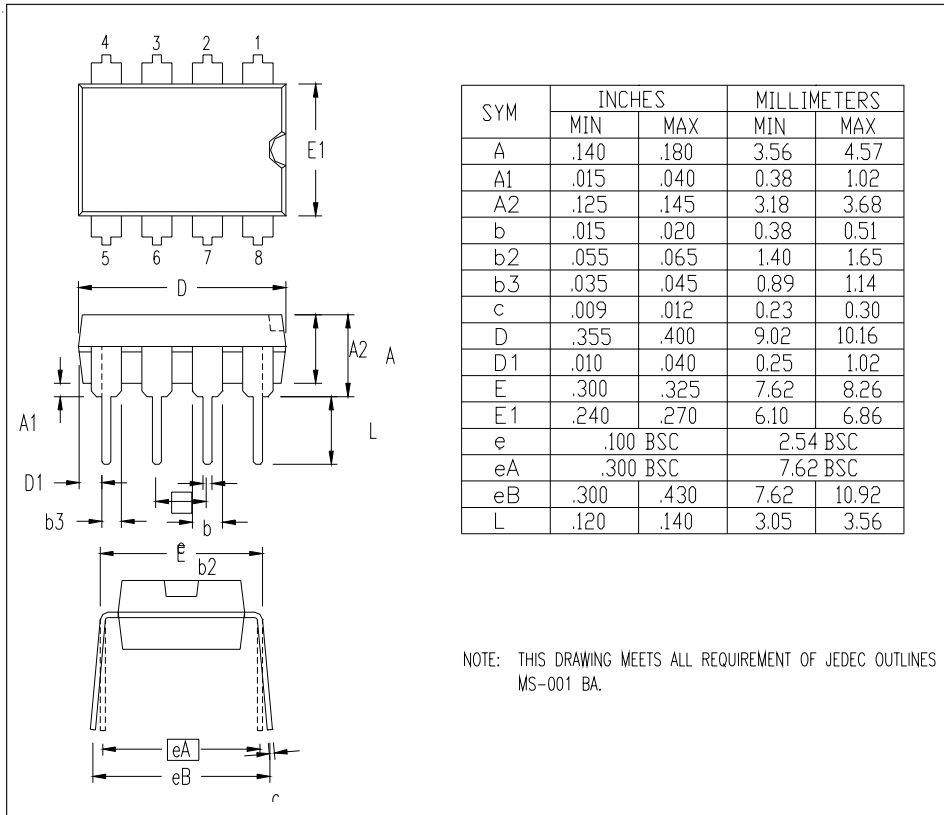
Features

- 2500V (RMS) Isolation
- Low interwinding capacitance
- Economical 8-PIN DIP packages
- Molding epoxy meets UL 94V-0 flammability classification
- To be submitted for UL recognition

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DS99016A(11/03)

Package Outline: 8-PIN DIP (TX02-4400PI)

Package Outline: 8-PIN DIP-SM (TX02-4400JI)
