



**BICRON® Electronics Company**  
**"GATE GUARD" series Gate Drive Transformers**  
**– Performance Ranges for Frequencies 10KHz to 500KHz**

		"GATE GUARD" TRANSFORMER CONFIGURATION (standard platforms—see table at lower left for approximate sizes)									
		"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"
VA RATING	≤10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤20		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤50			✓	✓	✓	✓	✓	✓	✓	✓
	≤100				✓	✓	✓	✓	✓	✓	✓
	≤200					✓	✓	✓	✓	✓	✓
	≤250						✓	✓	✓	✓	✓
	≤300							✓	✓	✓	✓
	≤400								✓	✓	✓
	≤2000									✓	✓
≥3000										✓	
VOLTAGE INPUT	≤50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤100		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤125			✓	✓	✓	✓	✓	✓	✓	✓
	≤150				✓	✓	✓	✓	✓	✓	✓
	≤200					✓	✓	✓	✓	✓	✓
	≤250						✓	✓	✓	✓	✓
	≤500							✓	✓	✓	✓
	≤600								✓	✓	✓
	≤700									✓	✓
VOLTAGE OUTPUT	≤50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤100		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤125			✓	✓	✓	✓	✓	✓	✓	✓
	≤150				✓	✓	✓	✓	✓	✓	✓
	≤200					✓	✓	✓	✓	✓	✓
	≤250						✓	✓	✓	✓	✓
	≤500							✓	✓	✓	✓
	≤600								✓	✓	✓
	≤700									✓	✓
HIPOT LEVEL IN KV	≤2.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤4.0		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤4.5			✓	✓	✓	✓	✓	✓	✓	✓
	≤5.2			✓	✓	✓	✓	✓	✓	✓	✓
	≤8.0				✓	✓	✓	✓	✓	✓	✓
	≤9.0					✓	✓	✓	✓	✓	✓
	≤12						✓	✓	✓	✓	✓
	≤25							✓	✓	✓	✓
	≤42								✓	✓	✓
CORONA-FREE LEVEL and OPERATIONAL VOLTAGE IN KV	≤2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤2.3		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤2.5		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤3.3			✓	✓	✓	✓	✓	✓	✓	✓
	≤3.5				✓	✓	✓	✓	✓	✓	✓
	≤4.0					✓	✓	✓	✓	✓	✓
	≤6.0						✓	✓	✓	✓	✓
	≤10							✓	✓	✓	✓
	≤30								✓	✓	✓
BIL LEVEL IN KV	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	10		✓	✓	✓	✓	✓	✓	✓	✓	✓
	11			✓	✓	✓	✓	✓	✓	✓	✓
	12			✓	✓	✓	✓	✓	✓	✓	✓
	14				✓	✓	✓	✓	✓	✓	✓
	16					✓	✓	✓	✓	✓	✓
	20						✓	✓	✓	✓	✓
	60							✓	✓	✓	✓
	65								✓	✓	✓

TRANSFORMER MECHANICAL SIZES (APPROXIMATE)			
CONFIGURATION	Length	Width	Height
"A"	1.00	1.00	1.00
"B"	0.99	0.93	0.80
"C"	1.25	1.25	1.40
"D"	1.80	1.80	1.10
"E"	2.50	2.50	1.50
"F"	2.55	2.00	1.50
"G"	3.75	3.45	2.50
"H"	2.20	1.30	2.20
"J"	2.18	1.30	2.18
"K"	CONTACT BICRON		

**A note on reading the tables:**

Check marks with a green background indicate that a transformer can be supplied with that performance value. For example, a transformer with a VA rating of ≤10 can be supplied in every size configuration, "A" through "K". A transformer with a VA rating of ≥3000 can only be supplied in the size "K" configuration.

Contact Bicon engineering for further information and consultation on solutions related to high frequency, high voltage IGBT circuits and associated gate drive transformer power sources.

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