

HITACHI

T-52-13-90

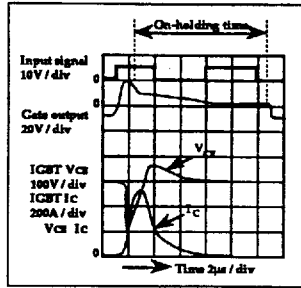
3. Driver ICs

IGBT Driver ICs: HTK0010 and HTK0030

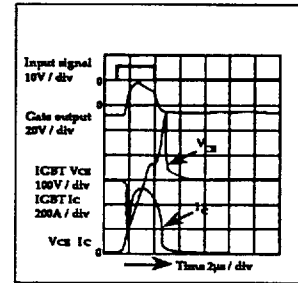
Features

- Outputs on and off signals required for driving the IGBT using 5V input signals.
- Incorporating a special circuit of ON-HOLDING function, provides the protection function that the overcurrent be safely turned off at the shorted load or the shorted poles.
- Outputs a detection signal when an overcurrent is produced.

Waveform of Overcurrent Protection



With on-holding Circuit



Without on-holding Circuit

Table 19 : Ratings and Characteristics

Items		Symbols	Units	HTK0010	HTK0030
Input	DC Power Supply	VGG	V	28	28
	Input Voltage	VIN		-0.5 ~ 5.5	-0.5 ~ 5.5
Output	Forward Bias Output Current	IOHP	A	1.5	2.5
	Reverse Bias Output Current	IOLP		-2.5	-2.5
	On Signal Propagation Delay Time	tdLH	µs	0.4 typ	0.4 typ
	Off Signal Propagation Delay Time	tdHL		0.1 typ	0.07 typ
Protection	Over Current Detecting Voltage	Voc	V	8 typ	10 typ
	On Holding Time	td	µs	50 typ	45 typ
Features				Built-in photocouplers (Input signal circuit & failure detection signal transmitter circuit)	Built-in photocouplers (Input signal circuit)

HTK0010

HTK0030

