



SEMIDRIVER™

Thyristor driver for three phase half controlled bridge

SKHIT 01

Preliminary Data

Features

- patent DE 197 10 371
- SKHIT 01 can be soldered directly onto a printed circuit board
- Isolation by transformers (DC/DC) and opto couplers (signal)

Typical Applications

- DC-link voltage converter with precharge circuit

Absolute Maximum Ratings		$T_a = 25^\circ\text{C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
	Isolation test voltage input - output (2 sec. AC)	2500	V
	Operating temperature	0 ... + 60	$^\circ\text{C}$
	Storage temperature	- 25 ... + 70	$^\circ\text{C}$

Characteristics		$T_a = 25^\circ\text{C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
	Operating voltage (phase to phase)		480	528	V
	Trigger current (output)		400		mA
	Trigger current pulse length	10	12	15	μs
	Pulse current cycling frequency	6,6	8,3	10	kHz
	Power supply				
	Supply voltage	14,4	15	15,6	V
	Supply current (standby)		60		mA
	Supply current (max.)		150		mA
	Signals				
	Thyristor trigger enable threshold (HIGH)	3,9		5,5	V
	Thyristor trigger enable threshold (LOW)	-0,5		1	V
	Input current "On"		10		mA
	Open collector error output (error = Low)				
	U_{CE} ($I_C = 4$ mA)			1	V
	I_C			5	mA
	Maximum rating voltages				
	Power to earth (overvoltage cat. III)		300		V_{eff}
	Power to logic (overvoltage cat. II)		900		V_{eff}
	Logic to earth		60		V_{eff}

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