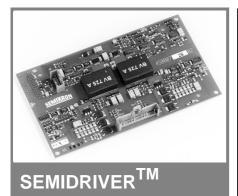
SKHI 26W, SKHI 26F



Double IGBT driver

SKHI 26W, SKHI 26F

Features

- Double driver for half bridge modules
- SKHI 26 drives all SEMIKRON IGBT's with V_{CE} up to 1200 V
- · SKHI 26F has fibre optic input
- SKHI 26W has wire (galvanic) input
- CMOS compatible inputs
- Short circuit protection by V_{CE} monitoring and soft switch off
- Driver interlock top/bottom
- · Isolation by transformers
- Supply undervoltage protection (< 13 V)
- Error latch / open-collector output (SKHI 26W)
- DC bus voltage up to 1200 V

Typical Applications

- High power switches or paralleled IGBTs
- Driver for IGBT modules in bridge circuits in choppers, inverter drives, UPS and welding inverters
- 1) Open-collector transistor

Absolute Maximum Ratings T _a = 25°C, unless otherwise specified					
Symbol	Conditions	Values	Units		
V_S	Supply voltage primary	18	V		
V _{iH}	Input signal voltage (HIGH)	V _S ± 0,3	V		
I _{iH}	Input signal current (HIGH)	0,34	mA		
Q _{Gate max}	Max. output charge per pulse	± 10	μC		
lout _{PEAK}	Output peak current	± 8	Α		
lout _{AV}	Output average current	± 100	mA		
V _{CE}	Collector-emitter maximum voltage sense	1600	V		
dv/dt	Rate of rise and fall of voltage	75	kV/μs		
	(secondary to primary side)				
V _{isol IO}	Isolation test volt. IN-OUT (2 sec. AC)	4000	V		
T _{op}	Operationg temperature (SKHI 26W)	- 25 + 85	°C		
	Operating temperature (SKHI 26F)	0 + 70	°C		
T _{stq}	Storage temperature (SKHI 26W)	- 25 + 85	°C		
	Storage temperature (SKHI 26F)	0 + 70	°C		

Characteristics T _a = 25 °C, unless otherwise specifie						
Symbol	Conditions	min.	typ.	max.	Units	
V_S	Supply voltage primary side		15 ± 0,6		V	
Is	Supply current primary side max.		700		mA	
I _{so}	Supply current primary side (stand by)		175		mA	
V _{iT+}	Input threshold voltage (HIGH) min		12,9		V	
V _{iT-}	Input threshold voltage (LOW) max		2,1		V	
$V_{G(on)}$	Turn-on output gate voltage		+15		V	
$V_{G(off)}$	Turn-off output gate voltage		- 8		V	
td(on) _{IO}	Input-output turn-on propagation time		1,0 + tTD		μs	
td(off) _{IO}	Input-output turn-off propagation time		1,0		μs	
t _{TD}	Dead time		3,3		μs	
t _{pon-error}	propag. delay time - on error		1,0		μs	
t _{pReset}	Min. pulse width error memory RESET		5,0		μs	
V _{OH} 1)	Logic high output voltage ERROR state		max. 30		V	
V _{OL} ¹⁾	Logic low output voltage NO-ERROR state		max. 0,5		V	
I _{sink} 1)	Sink output current NO-ERROR		30		mA	
V_{CEstat}	Reference voltage for V _{CE} monitoring		5,2		V	

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