

SINGLE CHANNEL DARLINGTON SLOTTED INTERRUPTER SWITCH

WITH MOUNTING TABS				H21B1	H21B2	H21B3	H21B4	H21B5	H21B6	ISTS400
Parameter	Units	Test Conditions								
V _F	Max	V	I _F = 60mA	1.7	1.7	1.7	1.7	1.7	1.7	1.7
I _R	Max	μA	V _{CE} = 5V	100	100	100	100	100	100	100
BV _{ECCO}	Min	V	I _C = 1mA	30	30	30	55	55	55	30
BV _{ECCO}	Min	V	I _E = 100μA	6.0	6.0	6.0	6.0	6.0	6.0	6.0
I _{CEO}	Max	nA	V _{CE} = 25V I _B = 0	100	100	100	100	100	100	100
V _{CE(SAT)}	Max	V	I _F = 10mA, I _C = 1.8mA	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Max	V	I _F = 60mA, I _C = 50mA	-	1.5	1.5	-	1.5	1.5	-
I _{C(ON)}	Min	mA	V _{CE} = 1.5V I _F = 2mA	0.5	1.0	2.0	0.5	1.0	2.0	-
	Min	mA	I _F = 5mA	2.5	5.0	10.0	2.5	5.0	10.0	-
	Min	mA	I _F = 10mA	7.5	14.0	25.0	7.5	14.0	25.0	7.5
t _{on}	Typ	μs	V _{CC} = 5V, R _F = 750Ω I _F = 10mA	45	45	45	45	45	45	45
t _{off}	Typ	μs		250	250	250	250	250	250	250
Aperture		mm	Emitter	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		mm	Sensor	1.0	1.0	1.0	1.0	1.0	1.0	-
Package / Schematic				1/2	1/2	1/2	1/2	1/2	1/2	1/2

WITHOUT MOUNTING TABS				H22B1	H22B2	H22B3	ISTS300	H22B4	H22B5	H22B6
Parameter	Units	Test Conditions								
V _F	Max	V	I _F = 20mA	1.7	1.7	1.7	1.7	1.7	1.7	1.7
I _R	Max	μA	V _{CE} = 5V	100	100	100	100	100	100	100
BV _{ECCO}	Min	V	I _C = 1mA	30	30	30	30	50	50	50
BV _{ECCO}	Min	V	I _E = 100μA	6.0	6.0	6.0	6.0	6.0	6.0	6.0
I _{CEO}	Max	nA	V _{CE} = 25V I _B = 0	100	100	100	100	100	100	100
V _{CE(SAT)}	Max	V	I _F = 10mA, I _C = 1.8mA	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Max	V	I _F = 60mA, I _C = 50mA	-	1.5	1.5	-	-	1.5	1.5
I _{C(ON)}	Min	mA	V _{CE} = 1.5V I _F = 2mA	0.5	1.0	2.0	-	0.5	1.0	2.0
	Min	mA	I _F = 5mA	2.5	5.0	10.0	-	2.5	5.0	10.0
	Min	mA	I _F = 10mA	7.5	14.0	25.0	7.5	7.5	14.0	25.0
t _{on}	Typ	μs	V _{CC} = 5V, R _F = 750Ω I _F = 10mA	45	45	45	45	45	45	45
t _{off}	Typ	μs		250	250	250	250	250	250	250
Aperture		mm	Emitter	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		mm	Sensor	1.0	1.0	1.0	-	1.0	1.0	1.0
Package / Schematic				2/2	2/2	2/2	2/2	2/2	2/2	2/2