

# ISOCOM COMPONENTS

## SINGLE CHANNEL TRANSISTOR SLOTTED INTERRUPTER

WITH MOUNTING TABS			H21A1	H21A2	H21A3	ISTS200	H21A4	H21A5	H21A6
Parameter	Units	Test Conditions							
$V_F$ Max	V	$I_F$ (mA) =	60	60	60	30	60	60	60
			1.7	1.7	1.7	1.6	1.7	1.7	1.7
$I_R$ Max	$\mu A$	$V_{CE} = 5V$	100	100	100	100	100	100	100
$BV_{ECO}$ Min	V	$I_C = 1mA$	30	30	30	30	55	55	55
$BV_{ECO}$ Min	V	$I_E = 100\mu A$	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
$V_{CE(SAT)}$	V	$I_C$ (mA) =	1.8	1.8	1.8	1.8	1.8	1.8	1.8
		$I_F = 20mA$	-	0.4	0.4	-	-	0.4	0.4
		$I_F = 30mA$	0.4	-	-	0.4	0.4	-	-
$I_{C(ON)}$	mA	$V_{CE}$ (V) =	5.0	5.0	5.0	5.0	5.0	5.0	5.0
		$I_F = 5mA$	0.15	0.3	0.6	-	0.15	0.3	0.6
		$I_F = 20mA$	1.0	2.0	4.0	-	1.0	2.0	4.0
		$I_F = 30mA$	1.9	3.0	5.5	1.9	1.9	3.0	5.5
$t_r$ Typ	$\mu s$	$V_{CE} = 5V, R_L$ (K) $\Omega$ =	2.5	2.5	2.5	0.1	2.5	2.5	2.5
		$I_F = 1mA$	-	-	-	3.0*	-	-	-
$t_{(ON)}$ Typ	$\mu s$	$I_F = 30mA$	8.0	8.0	8.0	-	8.0	8.0	8.0
$t_f$ Typ	$\mu s$	$I_F = 1mA$	-	-	-	3.0	-	-	-
$t_{(OFF)}$ Typ	$\mu s$	$I_F = 30mA$	50	50	50	-	50	50	50
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	1.0
Package / Schematic			2/1	2/1	2/1	2/1	2/1	2/1	2/1

WITHOUT MOUNTING TABS			ISTS100	H22A1	H22A2	H22A3	H22A4	H22A5	H22A6
Parameter	Units	Test Conditions							
$V_F$ Max	V	$I_F$ (mA) =	30	60	60	60	60	60	60
			1.6	1.7	1.7	1.7	1.7	1.7	1.7
$I_R$ Max	$\mu A$	$V_{CE} = 5V$	100	100	100	100	100	100	100
$BV_{ECO}$ Max	V	$I_C = 1mA$	30	30	30	30	55	55	55
$BV_{ECO}$ Max	V	$I_E = 100\mu A$	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
$V_{CE(SAT)}$	V	$I_C$ (mA) =	1.8	1.8	1.8	1.8	1.8	1.8	1.8
		$I_F = 20mA$	-	-	0.4	0.4	-	0.4	0.4
		$I_F = 30mA$	0.4	0.4	-	-	0.4	-	-
$I_{C(ON)}$	mA	$V_{CE}$ (V) =	5.0	5.0	5.0	5.0	5.0	5.0	5.0
		$I_F = 5mA$	-	0.15	0.3	0.6	0.15	0.3	0.6
		$I_F = 20mA$	-	1.0	2.0	4.0	1.0	2.0	4.0
		$I_F = 30mA$	1.9	1.9	3.0	5.0	1.9	3.0	5.0
$t_r$ Typ	$\mu s$	$V_{CE} = 5V, R_L$ (K) $\Omega$ =	1.0	2.5	2.5	2.5	2.5	2.5	2.5
		$I_F = 1mA$	3.0*	-	-	-	-	-	-
$t_{(ON)}$ Typ	$\mu s$	$I_F = 30mA$	-	8.0	8.0	8.0	8.0	8.0	8.0
$t_f$ Typ	$\mu s$	$I_F = 1mA$	3.0*	-	-	-	-	-	-
$t_{(OFF)}$ Typ	$\mu s$	$I_F = 30mA$	-	5.0	5.0	5.0	5.0	5.0	5.0
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	1.0
Package / Schematic			2/1	2/1	2/1	2/1	2/1	2/1	2/1