

DUAL CHANNEL

SLOTTED INTERRUPTER SWITCH (TRANSISTOR SENSOR)				WITHOUT MOUNTING TAB			WITH MOUNTING TAB		
Parameter		Units	Test Conditions	ISTS150	ISTS832S	ISTS832SD	ISTS250	ISTS822S	ISTS822SD
V_F	Max	V	$I_F = 20\text{mA}$	1.6	1.7	1.7	1.6	1.7	1.7
I_F	Max	μA	$V_F = 3\text{V}$	100	100	100	100	100	100
BV_{ECO}	Min	V	$I_C = 1\text{mA}$	30	30	30	30	30	30
BV_{ECO}	Min	V	$I_F = 100\mu\text{A}$	5.0	5.0	5.0	5.0	5.0	5.0
I_{CEO}	Max	nA	$V_{CE} = 25\text{V}$ $I_F = 0$	100	100	100	100	100	100
$V_{CE(SAT)}$			$I_F = 20\text{mA}$						
	Max	V	$I_C = 50\mu\text{A}$	-	-	0.4	-	-	0.4
	Max	V	$I_C = 125\mu\text{A}$	0.4	0.4	-	0.4	0.4	-
I_{CON}			$V_{CE} = 10\text{V}$						
	Min	μA	$I_F = 20\text{mA}$	250	250	100	250	250	100
t_r	Typ	μA	$V_{CE} = 5\text{V}, R_L = 100\Omega$ $I_F = 1\text{mA}$	3.0	-	-	3.0	-	-
t_f	Typ	μA		3.0	-	-	3.0	-	-
Aperture		mm	Emitter	-	-	0.25	-	-	0.25
		mm	Sensor	-	0.25	0.25	-	0.25	0.25
Package / Schematic				5/5	5/5	5/5	6/5	6/5	6/5

SPECIAL PURPOSE

OPTO - SWITCHES (TRANSISTOR SENSOR)				REFLECTIVE SWITCH			FLYING LEAD SWITCH			5mm GAP		
Parameter		Units	Test Conditions	ISTS149	ISTS703A	ISTS708		ISTS823A	ISTS824A		ISTS105	ISTS802
V_F	Max	V	$I_F (\text{mA}) =$	40	40	40		20	20		20	10
				1.6	1.7	1.7		1.7	1.7		1.4	1.3
I_R	Max	μA	$V_F = 3\text{V}$	100	100	100		100	100		10	10
BV_{ECO}	Min	V	$I_C = 1\text{mA}$	30	30	30		30	30		35	30
BV_{ECO}	Min	V	$I_F = 100\mu\text{A}$	6.0	5.0	5.0		5.0	5.0		6.0	5.0
I_{CEO}	Max	nA	$V_{CE} = 25\text{V}$ $I_F = 0$	100	100	100		100	100		100	100
$V_{CE(SAT)}$			$I_F = 20\text{mA}$ D(mm)=	3.8	3.5	3.8	$I_C (\mu\text{A}) =$	100	250	$I_C = 0.2\text{mA}$		$I_C = 0.2\text{mA}$
	Max	V	$I_C = 3\mu\text{A}$	0.4	-	0.4	$I_F = 20\text{mA}$	0.4	0.4	$I_F = 20\text{mA}$	0.4	$I_F = 20\text{mA}$
	Max	V	$I_C = 100\mu\text{A}$	-	0.4	-		-	-		-	-
I_{CON}			$V_{CE} = 5\text{V}$ D(mm)=	3.8	5.0	3.8	$V_{CE} = 10\text{V}$	-		$V_{CE} = 5\text{V}$	-	$V_{CE} = 5\text{V}$
	Min	μA	$I_F = 20\text{mA}$	25	200	10	$I_F = 20\text{mA}$	200	500	$I_F = 20\text{mA}$	500	$I_F = 20\text{mA}$
Package / Schematic				11/4	9/4	10/4		4/3	4/3		12/1	*1