

TRANSISTOR FAMILY

Characteristics	V_F	I_R	BV_{CEO}	BV_{ECO}	I_{CEO}	$V_{CE(SAT)}$	$V_{CE(SAT)}$	$V_{CE(SAT)}$	$I_{C(ON)}$	Sensor Aperture	Package No.	Schematic No.
Test Conditions	$I_F = 20mA$	$V_R = 2V$	$I_C = 1mA$	$I_E = 100\mu A$	$V_{CE} = 10V$ $I_F = 0$ $E_O = 0$	$I_F = 20mA$ $I_C = 40\mu A$	$I_F = 20mA$ $I_C = 125\mu A$	$I_F = 20mA$ $I_C = 175\mu A$	$I_F = 20mA$ $V_{CE} = 10V$			
Part No.	Max (V)	Max (μA)	Min (V)	Min (V)	Max (nA)	Max (V)	Max (V)	Max (V)	Min (μA)	mm		
ISTS 813S3	1.7	100	30	5	100	0.4	—	—	75	0.08 x 1	31	1
ISTS 813S5	1.7	100	30	5	100	—	0.4	—	250	0.13 x 1	31	1
ISTS 813S7	1.7	100	30	5	100	—	—	0.4	350	0.18 x 1	31	1

TRANSISTOR FAMILY — FLYING LEADS

Characteristics	V_F	I_R	BV_{CEO}	BV_{ECO}	I_{CEO}	$V_{CE(SAT)}$	$V_{CE(SAT)}$	$I_{C(ON)}$	Package No.	Schematic No.
Test Conditions	$I_F = 20mA$	$V_R = 2V$	$I_C = 1mA$	$I_E = 100\mu A$ $I_F = 0$	$V_{CE} = 10V$ $I_F = 0$ $E_O = 0$	$I_F = 20mA$ $I_C = 100\mu A$	$I_F = 20mA$ $I_C = 250\mu A$	$I_F = 20mA$ $V_{CE} = 10V$		
Part No.	Max (V)	Max (μA)	Min (V)	Min (V)	Max (nA)	Max (V)	Max (V)	Typ (μS)		
ISTS 823A	1.7	100	30	5	100	0.4	—	200	35	9
ISTS 824A	1.7	100	30	5	100	—	0.4	500	35	9

DUAL TRANSISTOR FAMILY

Characteristics	V_F	I_R	BV_{CEO}	BV_{ECO}	I_{CEO}	$V_{CE(SAT)}$	$I_{C(ON)}$	T_R, T_F	Package No.	Schematic No.
Test Conditions	$I_F = 20mA$	$V_R = 3V$	$I_C = 1mA$	$I_E = 100\mu A$ $I_F = 0$	$V_{CE} = 10V$ $I_F = 0$ $I_H = 0$	$I_C = 125\mu A$ $I_F = 20mA$	$I_F = 20mA$ $V_{CE} = 10V$	$I_F = 1mA$ $V_{CC} = 5V$ $R_L = 100$		
Part No.	Max (V)	Max (μA)	Min (V)	Min (V)	Max (nA)	Max (V)	Min (μA)	Typ (μS)		
ISTS 150	1.6	100	30	5	100	0.4	250	3	36	5
ISTS 151	1.6	100	30	5	100	0.4	250	3	36	6
ISTS 250	1.6	100	30	5	100	0.4	250	3	37	5
ISTS 251	1.6	100	30	5	100	0.4	250	3	37	6

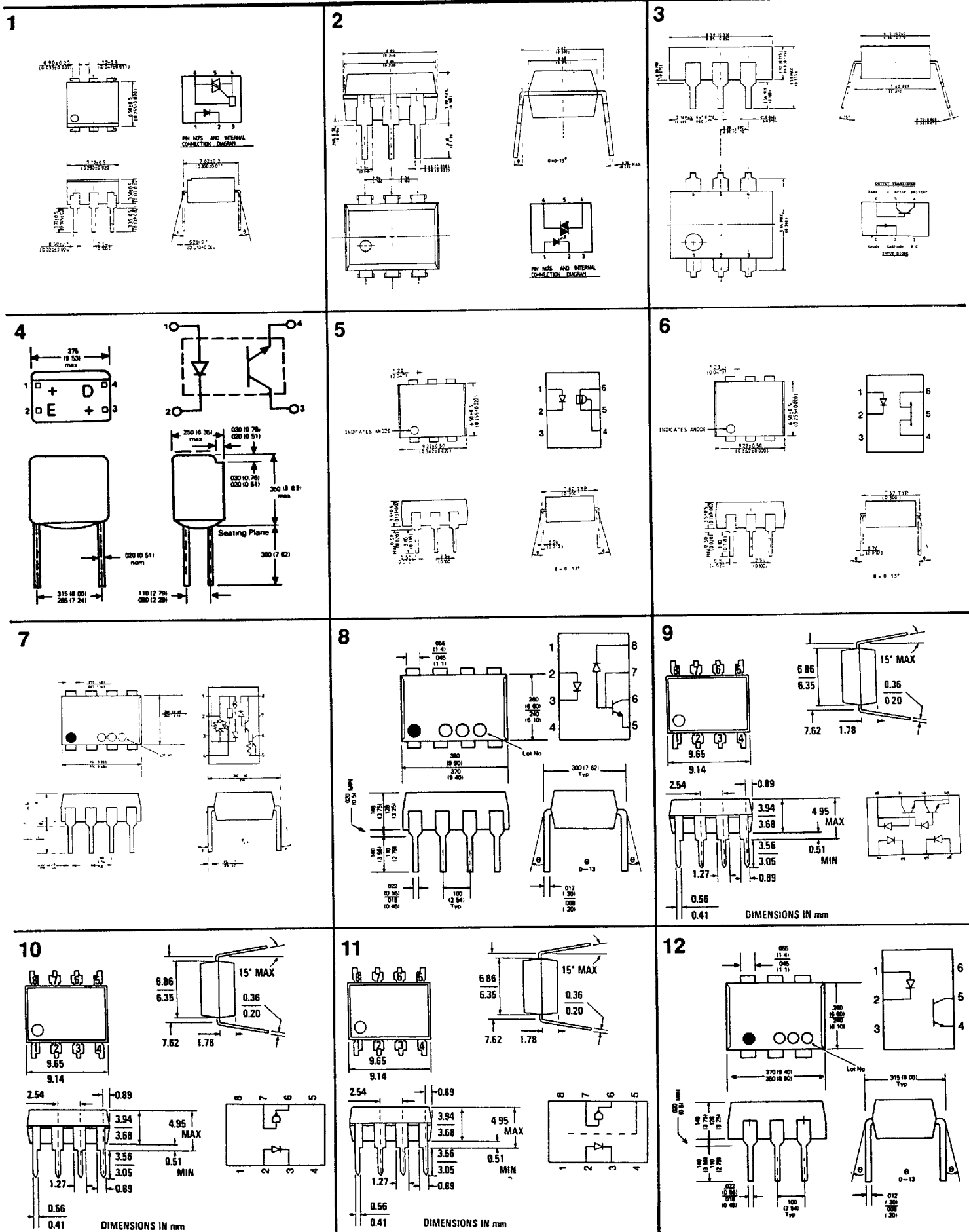
DUAL TRANSISTOR FAMILY

Characteristics	V_F	I_R	BV_{CEO}	BV_{ECO}	I_{CEO}	$V_{CE(SAT)}$	$V_{CE(SAT)}$	$I_{C(ON)}$				
Test Conditions	$I_F = 20mA$	$V_R = 2V$	$I_C = 1mA$	$I_E = 100\mu A$ $I_F = 0$	$V_{CE} = 10V$ $I_F = 0$ $I_H = 0$	$I_C = 125\mu A$ $I_F = 20mA$	$I_C = 50\mu A$ $I_F = 20mA$	$I_F = 20mA$ $V_{CE} = 10V$	Sensor Apt.	Emitter Apt.	Package No.	Schematic No.
Part No.	Max (V)	Max (μA)	Min (V)	Min (V)	Max (nA)	Max (V)	Max (V)	Min (μA)	mm	mm		
ISTS 822S	1.7	100	30	5	100	0.4	—	250	—	0.25	37	5
ISTS 822SD	1.7	100	30	5	100	—	0.4	100	0.25	0.25	37	5
ISTS 832S	1.7	100	30	5	100	0.4	—	250	—	0.25	36	5
ISTS 832SD	1.7	100	30	5	100	—	0.4	100	0.25	0.25	36	5

DARLINGTON FAMILY

Characteristics	V_F	I_R	BV_{CEO}	BV_{ECO}	I_{CEO}	$V_{CE(SAT)}$	$I_{C(ON)}$	T_{ON}	T_{OFF}		
Test Conditions	$I_F = 60mA$	$V_R = 5V$	$I_C = 1mA$	$I_E = 100\mu A$ $I_F = 0$	$V_{CE} = 25V$ $I_F = 0$ $I_H = 0$	$I_C = 1.8mA$ $I_F = 10mA$	$I_F = 10mA$ $V_{CE} = 1.5V$	$V_{CC} = 5V$ $I_F = 10mA$ $R_L = 750$	$V_{CC} = 5V$ $I_F = 10mA$ $T_L = 750$	Package No.	Schematic No.
Part No.	Max (V)	Max (μA)	Min (V)	Min (V)	Max (nA)	Min (V)	Min (mA)	Typ (μS)	Typ (μS)		
ISTS 300	1.7	100	30	7	100	1.0	7.5	45	250	32	3
ISTS 301	1.7	100	30	7	100	1.0	7.5	45	250	32	4
ISTS 400	1.7	100	30	7	100	1.0	7.5	45	250	31	3
ISTS 401	1.7	100	30	7	100	1.0	7.5	45	250	31	4

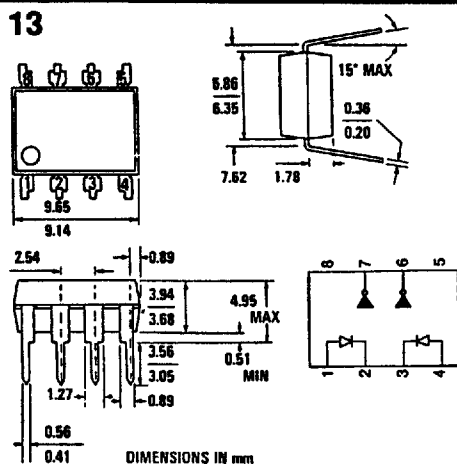
Package Dimensions in inches (mm)



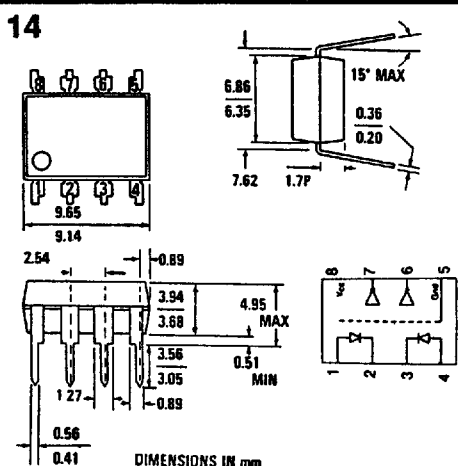
**PLEASE NOTE – THESE PACKAGE DIMENSIONS ARE INTENDED ONLY AS A GUIDE, FOR
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Package Dimensions in inches (mm)

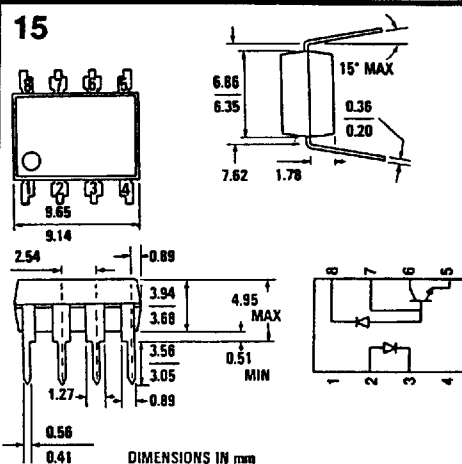
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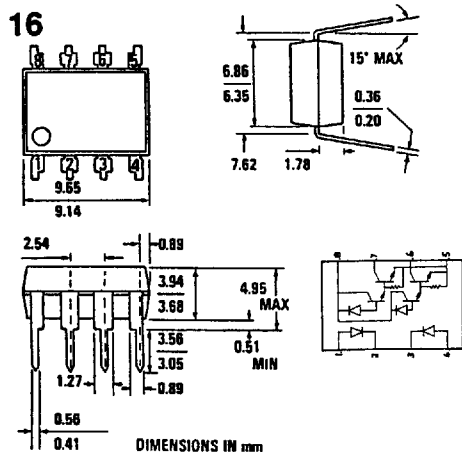
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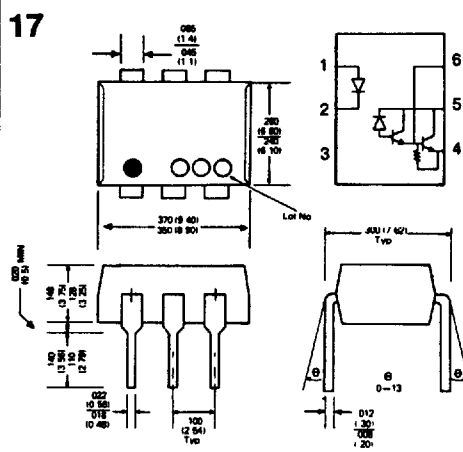
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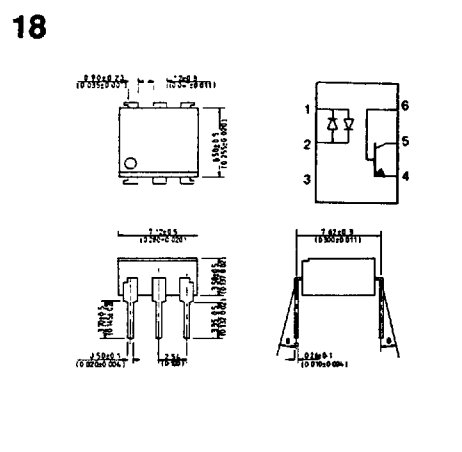
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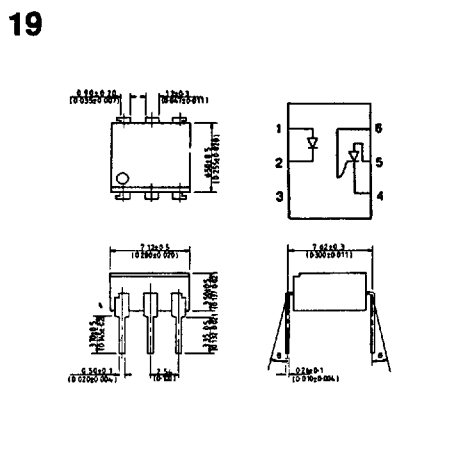
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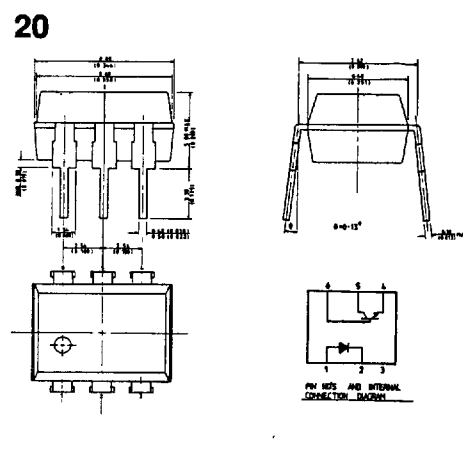
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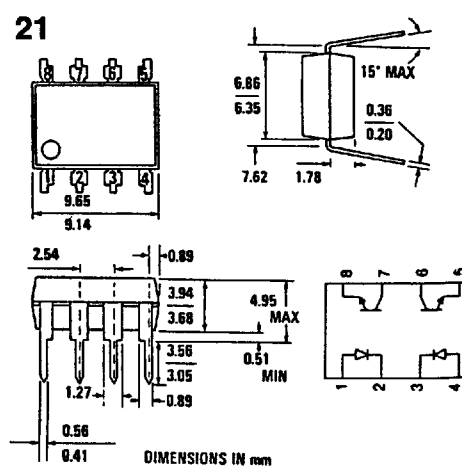
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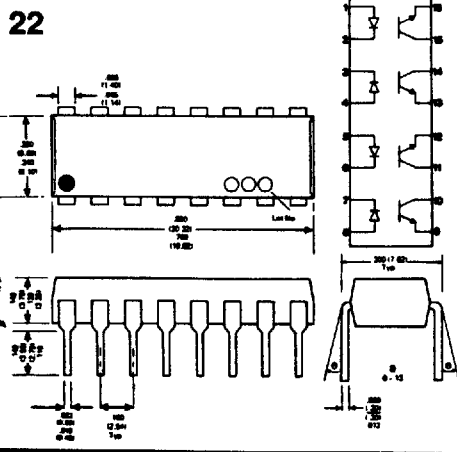
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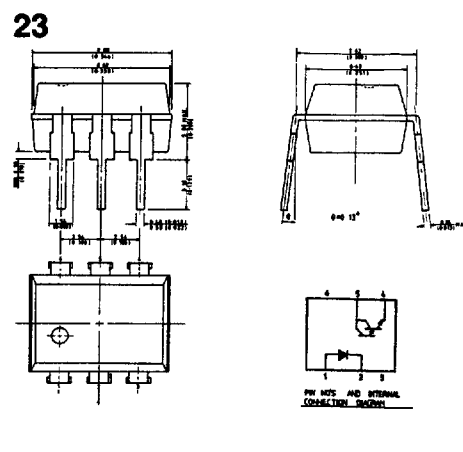
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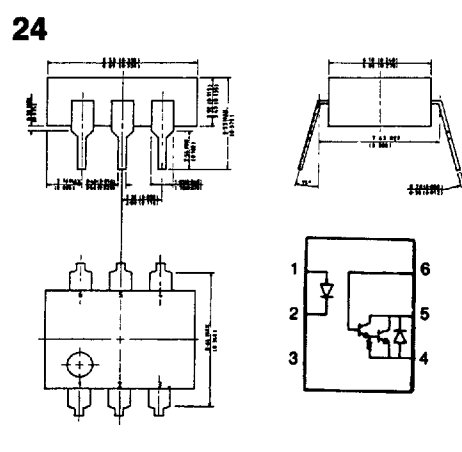
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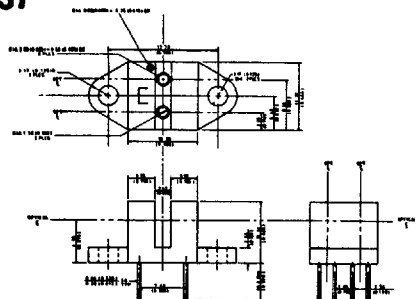
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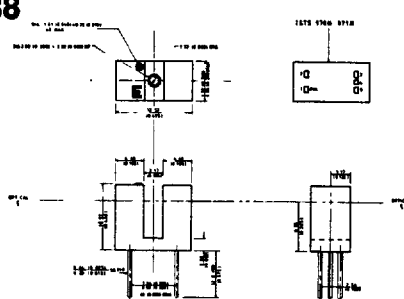
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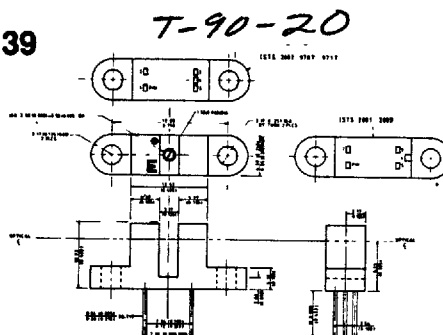
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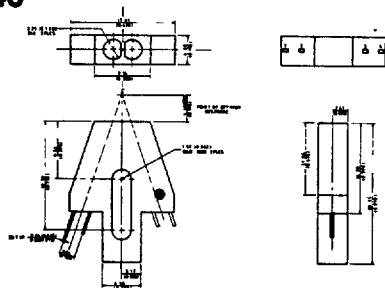
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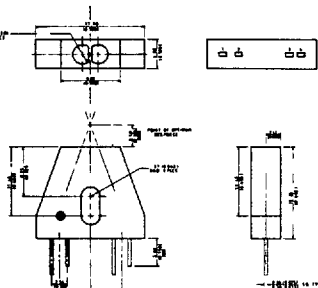
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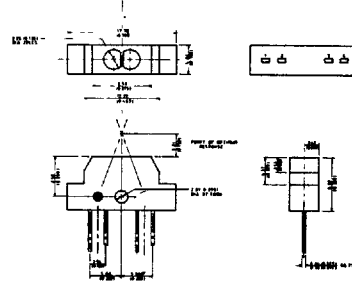
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NOTES COVERING SWITCHES

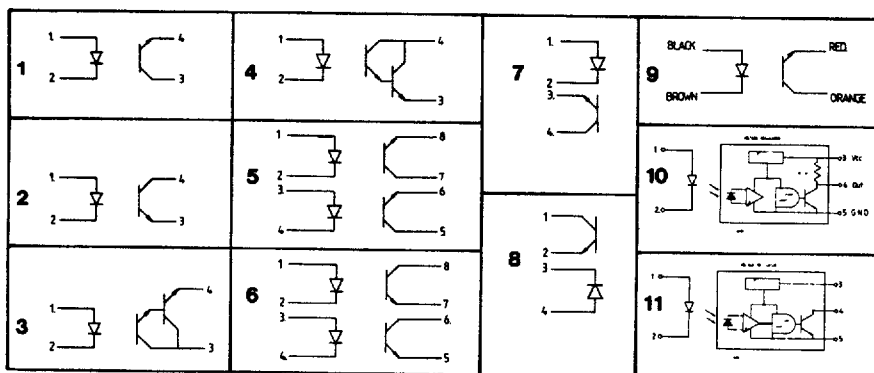
Lead Spacing – the standard interruptor switches are available with two standard lead spacings:

1. 0.320 (8.13)
0.290 (7.37)

2. 0.230 (5.84)
0.210 (5.33)

Housing material – Polycarbonate

SCHEMATICS



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