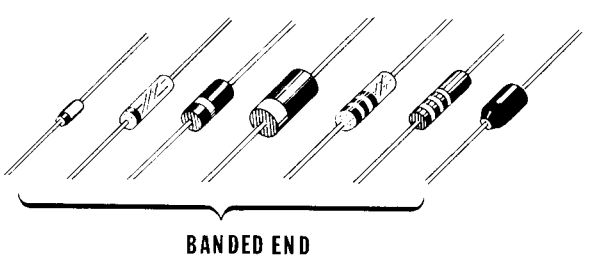
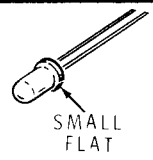


SEMICONDUCTOR IDENTIFICATION CHARTS

DIODES

COMPONENT	HEATH PART NUMBER	MAY BE REPLACED WITH	IDENTIFICATION
D202, D203	56-26	1N191	 <p>BANDED END</p>
D204, D205	56-27	S160	
D201, D206, D401, D402, D403	56-56	1N4149	
D608	56-64	MZ1000-24 (30-volt)	
D607	56-620	1N4744A, 17 mA zener (15-volt)	
D207, D601 through D606	57-65	1N4002	
D1, D2, D3	412-632	LED	 <p>SMALL FLAT</p>



TRANSISTORS

COMPONENTS	HEATH PART NUMBER	MAY BE REPLACED WITH	IDENTIFICATION
Q204, Q215, Q216, Q219, Q351, Q353	417-283	SM07275	
Q202, Q203, Q206, Q217, Q218, Q221, Q222, Q352, Q354	417-284	SM62186	
Q175, Q176	417-293	2N5770	
Q101, Q201, Q211, Q213, Q214	417-801	MPSA20	
Q102, Q205, Q207, Q208, Q209, Q401, Q402	417-875	2N3904	
Q103, Q104, Q177, Q212	417-881	MPSA13	
Q175	417-869	DS8629	
Q601	417-918	2N6387	

INTEGRATED CIRCUITS (TOP VIEWS)

COMPONENTS	HEATH PART NUMBER	MAY BE REPLACED WITH	IDENTIFICATION
U201 through U205	442-20	UA703	

Integrated Circuits (cont'd.)

COMPONENTS	HEATH PART NUMBER	MAY BE REPLACED WITH	IDENTIFICATION
IC601	442-617	UA78MGT2C	<p>HEAT SINK TABS ARE CONNECTED TO GND</p>
U206	442-637	HA1137	
U207, U208	442-657	MC1355	



Integrated Circuits (cont'd.)

COMPONENTS	HEATH PART NUMBER	MAY BE REPLACED WITH	IDENTIFICATION
U101	442-658	HA1197	
U403, U404	442-659	UDN6128A	
U209	442-673	HA11223	

Integrated Circuits (cont'd.)

COMPONENTS	HEATH PART NUMBER	MAY BE REPLACED WITH	IDENTIFICATION																																																								
U402	443-701	MC14049	<p>Pinout diagram for MC14049. Pins 1-8 are on the left, 9-16 on the right. Vcc is at pin 1, Vss at pin 8. Pins 16 and 13 are NC. Internal blocks A-F are shown.</p>																																																								
U401	443-870	A438112	<p>Pinout diagram for A438112. Pins 1-14 on the left, 15-28 on the right. Vcc at pin 28, GND at pin 14.</p> <table border="1"> <tr><td>AM FREQ</td><td>1</td><td>28</td><td>Vcc</td></tr> <tr><td>FM FREQ</td><td>2</td><td>27</td><td>SET TIME</td></tr> <tr><td>AM/FM</td><td>3</td><td>26</td><td>SET FREQ</td></tr> <tr><td>INHIBIT TIME SET</td><td>4</td><td>25</td><td>INTENSITY</td></tr> <tr><td>TEST</td><td>5</td><td>24</td><td>SEGMENT E</td></tr> <tr><td>PRESET</td><td>6</td><td>23</td><td>SEGMENT A</td></tr> <tr><td>OSCILLATOR 1</td><td>7</td><td>22</td><td>SEGMENT B</td></tr> <tr><td>OSCILLATOR 2</td><td>8</td><td>21</td><td>SEGMENT F</td></tr> <tr><td>FM/IF ADJUST</td><td>9</td><td>20</td><td>SEGMENT DP</td></tr> <tr><td>DIGIT 2</td><td>10</td><td>19</td><td>SEGMENT C</td></tr> <tr><td>DIGIT 3</td><td>11</td><td>18</td><td>SEGMENT G</td></tr> <tr><td>DIGIT 4</td><td>12</td><td>17</td><td>SEGMENT D</td></tr> <tr><td>DIGIT 1</td><td>13</td><td>16</td><td>SET MINUTES</td></tr> <tr><td>GND</td><td>14</td><td>15</td><td>SET HOURS</td></tr> </table>	AM FREQ	1	28	Vcc	FM FREQ	2	27	SET TIME	AM/FM	3	26	SET FREQ	INHIBIT TIME SET	4	25	INTENSITY	TEST	5	24	SEGMENT E	PRESET	6	23	SEGMENT A	OSCILLATOR 1	7	22	SEGMENT B	OSCILLATOR 2	8	21	SEGMENT F	FM/IF ADJUST	9	20	SEGMENT DP	DIGIT 2	10	19	SEGMENT C	DIGIT 3	11	18	SEGMENT G	DIGIT 4	12	17	SEGMENT D	DIGIT 1	13	16	SET MINUTES	GND	14	15	SET HOURS
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U175	443-869	DS8629	<p>Pinout diagram for DS8629. Pins 1-4 on the left, 5-8 on the right.</p> <table border="1"> <tr><td>(TTL) Vcc₂</td><td>1</td><td>8</td><td>Vcc₁ (ECL/BUFFER)</td></tr> <tr><td>OUTPUT</td><td>2</td><td>7</td><td>INPUT (POSITIVE-EDGE TRIGGERED)</td></tr> <tr><td>(TTL) GND₂</td><td>3</td><td>6</td><td>INPUT (NEGATIVE-EDGE TRIGGERED)</td></tr> <tr><td>(ECL BUFFER)</td><td>4</td><td>5</td><td>BIAS</td></tr> </table>	(TTL) Vcc ₂	1	8	Vcc ₁ (ECL/BUFFER)	OUTPUT	2	7	INPUT (POSITIVE-EDGE TRIGGERED)	(TTL) GND ₂	3	6	INPUT (NEGATIVE-EDGE TRIGGERED)	(ECL BUFFER)	4	5	BIAS																																								
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