

COLOR CODES OF  
PIGTAIL TYPE APPARATUS

CONTENTS

1.	GENERAL	3.	RESISTOR COLOR CODE
1.1	Scope of Section	3.1	Color Code
1.2	Reference Sections	3.2	Power Ratings for KS-Spec Resistors
1.3	Description of Color Code Systems	4.	DIODES
2.	CAPACITOR COLOR CODE	4.1	General
2.1	General Information	4.2	Color Code
2.2	Mica and Paper Dielectric		
2.3	Ceramic Dielectric		

1. GENERAL

1.1 Scope of Section

1.11 This section describes the color coding used to identify the capacitance and resistance values of pigtail type capacitors, resistors and diodes.

1.2 Reference Sections

1.21 The following is a list of sections that covers the requirements and methods for connecting and protecting pigtail apparatus:

Section 315, Components (Pigtail) Approved For Solderless Wire Wrapping

Section 331, Connecting at Specific Apparatus "C to F" (Capacitors)

Section 333, Connecting at Specific Apparatus "P" (Pigtail)

Section 360, Protecting Skinners, Apparatus Terminals and Live Leads

1.3 Description of Color Code Systems

1.31 There are two systems of color code markings that are in general use to indicate the capacitance or resistance values of pigtail type capacitors or resistors. They are as follows:

(a) The RETMA standard, adopted by the Radio-Electronics-Television Manufacturers association (formerly known as RMS).

(b) The MIL standard, adopted by the Military Services (formerly known as JAN).

These two systems are identical except that the RETMA standard uses a white marking to indicate a capacitor with a mica dielectric while the MIL standard uses a black marking to indicate a mica dielectric.

1.32 The color code markings consist of a series of colored bands, dots or spots which are painted onto the apparatus body. The capacitance or resistor values are determined by reading the colored markings in a fixed direction and then decoding the colors through the use of standard tables which indicate the significance of the color.

2. CAPACITOR COLOR CODE

2.1 General Information

2.11 The color code of capacitors is comprised of two parts, one for capacitors with mica or paper dielectric and the other for capacitors with ceramic dielectric. Figure 1 shows the types of apparatus bodies for each dielectric.

2.2 Mica and Paper Dielectric

2.21 Flat Body Type: The capacitance value is indicated by colored dots (two horizontal rows of 3 dots each). The value is obtained by reading the dots in the upper row from left to right and in the lower row from right to left and using Figure 1 and Table A to determine the significance of the dots position and color, respectively. An example follows:

**EXAMPLE:** A capacitor with silver, orange and blue dots, arranged from left to right, in the top row; and red, gold, and green dots, arranged from right to left, in the bottom row, has a paper dielectric, a capacitance of 3600 mmf and a tolerance of +5 percent.

2.22 **Button Body Type (Mica Dielectric Only):** The capacitance value is indicated by colored dots on the outside edge of the body. The value is obtained by reading the dots in a clockwise direction and using Figure 1 and Table A to determine the significance of the dots position and color, respectively. An example follows:

**EXAMPLE:** A capacitor with black, yellow, violet, red, silver, and blue dots, arranged in a clockwise direction, has a mica dielectric, a capacitance of .4700 mmf and a tolerance of + 10%.

2.3 Ceramic Dielectric

2.31 **Tubular Body:** The capacitance value is indicated by colored bands or spots. The value is obtained by reading the bands or spots from left to right and using Figure 1 and Table B to determine the significance of the bands or spots position and color, respectively. An example follows the next succeeding paragraph.

2.32 **Disc Body:** The capacitance value is indicated by colored dots or spots. The value is obtained by reading the dots or spots in a clockwise direction and using Figure 1 and Table B to determine the significance of the dots or spots position and color, respectively. An example follows:

**EXAMPLE:** A capacitor with brown, gray, blue, orange and green bands (or spots) arranged from left to right (or in a clockwise direction), has a capacitance of 86,000 mmf and a tolerance of + 5 percent.

3. RESISTOR COLOR CODE

3.1 Color Code

3.1.1 As shown in Figure 2, pigtail type fixed resistors, composition or wire wound, are of two types; one having radial leads and the other axial leads. The resistance values are indicated by colored bands, or dots. The value is obtained by using Figure 2 and Table C to determine the significance of the bands or dots position and color, respectively. Several examples of color codes to identify specific resistance values are as follows:

RADIAL TYPE

Resistance In Ohms	Body	End	Band	
	A	B	C	D
43000 + 20%	Yellow	Orange	Orange	None
3000 + 10%	Orange	Black	Red	Silver
3.3 + 5%	Orange	Orange	Gold	Gold
.33 + 5%	Orange	Orange	Silver	Gold

AXIAL TYPE

Resistance In Ohms	Band				
	A	B	C	D	*E
43000 + 20%	Yellow	Orange	Orange	None	
3000 + 10%	Orange	Black	Red	Silver	
3.3 + 5%	Orange	Orange	Gold	Gold	
.33 + 5%	Orange	Orange	Silver	Gold	

\* Refer to Table C, Note 3.

3.2 Power Ratings for KS-Spec Resistors

3.2.1 The power ratings and tolerances for KS-specification composition resistors are given in Table D.

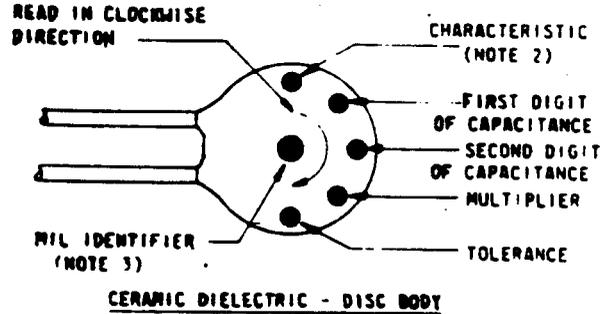
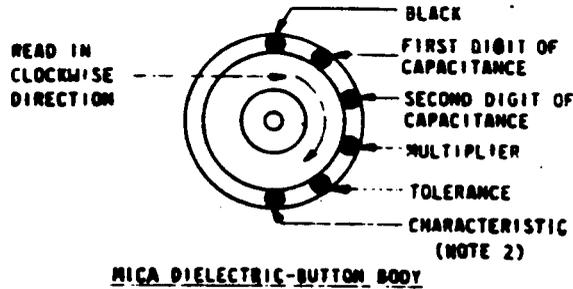
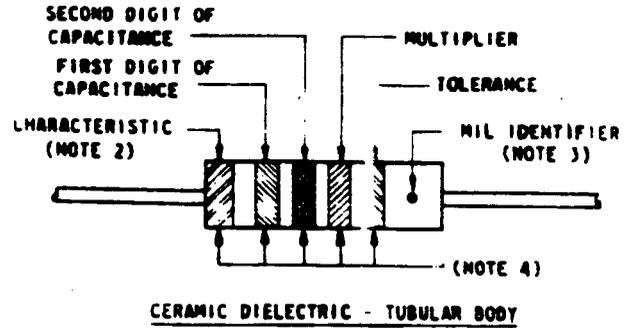
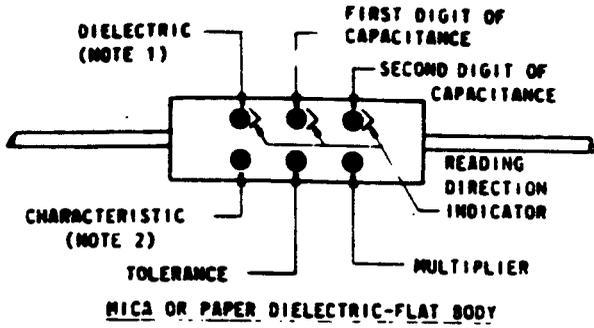
4. DIODES

4.1 General

4.1.1 Figure 3 is used to show the general appearance of some of the more commonly used pigtail type diodes. This figure should be used only for reference of terminal numbers.

4.2 Color Code

4.2.1 Several types of diodes are utilizing colored bodies with a variety of colored wide and narrow bands. Refer to Table E for the color code used to identify these types of diodes.



**NOTES**

1. SILVER INDICATES PAPER; BLACK INDICATES MICA (MIL); WHITE INDICATES MICA (RETHA).
2. THE CHARACTERISTIC IS A DESIGN FACTOR CONSIDERATION AND IS THEREFORE NOT INCLUDED IN TABLE A OR B. COLORS SHOULD MATCH WHEN REPLACING.
3. WHEN SPOTS ARE USED, A BLACK SPOT IS APPLIED ON THE OPPOSITE SIDE.
4. COLORED BANDS OR SPOTS MAY BE USED.

(RP-18943)

**FIG. 1 APPLICATION OF COLOR CODE TO PIGTAIL TYPE CAPACITORS (PARS. 2.1 to 2.3)**

**TABLE A CAPACITORS - MICA OR PAPER DIELECTRIC (PARS. 2.21, 2.22)**

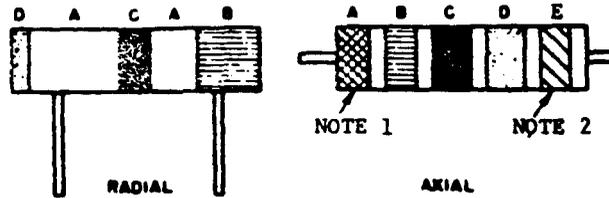
COLOR	SIGNIFICANCE OF FIRST TWO DIGITS	MULTIPLIER (SEE NOTE 1)	TOLERANCE
Black	0	1	+20%
Brown	1	10	
Red	2	100	+2%
Orange	3	1000	
Yellow	4		
Green	5		
Blue	6		
Violet	7		
Gray	8		
White	9		
Gold		0.1	+5%
Silver		0.01	+10%

**NOTE 1:** The multiplier is the factor by which the first two digits shall be multiplied to obtain the nominal capacitance in micromicrofarads (mmf).

**TABLE B CAPACITORS - CERAMIC DIELECTRIC (PARS. 2.31, 2.32)**

COLOR	SIGNIFICANCE OF FIRST TWO DIGITS	MULTIPLIER (SEE NOTE 1)	TOLERANCE	
			Nom. Capacitance 10 MMF or Less Per Cent	Over 10 MMF
Black	0	1	+2.0	+20
Brown	1	10	+0.1	+1
Red	2	100		+2
Orange	3	1000		+3
Yellow	4	10,000		
Green	5	100,000	+0.5	+5
Blue	6			
Violet	7			
Gray	8	0.01	+0.25	
White	9	0.1	+1.0	+10

**NOTE 1:** The multiplier is the factor by which the first two digits shall be multiplied to obtain the nominal capacitance in micromicrofarads (mmf).



(RP-16158-M)

<u>RADIAL</u>	<u>AXIAL</u>	
BODY A	BAND A	INDICATES FIRST SIGNIFICANT FIGURE
END B	BAND B	INDICATES SECOND SIGNIFICANT FIGURE
BAND C (OR DOT)	BAND C	INDICATES MULTIPLYING VALUE
BAND D	BAND D	INDICATES TOLERANCE IN PERCENT
	BAND E	INDICATES FAILURE RATE

- NOTES: 1. DOUBLE WIDTH BAND SIGNIFIES LOW-POWER FIXED, WIRE WOUND RESISTOR.  
 2. BAND E, WHEN USED ON COMPOSITION RESISTORS, INDICATES PERCENT FAILURE PER 1,000 HOURS. THIS IS A (MIL) MILITARY STANDARD.

FIG. 2 APPLICATION OF COLOR CODE TO PIGTAIL TYPE RESISTORS (PAR. 3.1)

TABLE C RESISTORS - COMPOSITION OR WIRE WOUND (PAR. 3.1)

COLOR	SIGNIFICANCE OF FIRST TWO DIGITS	MULTIPLIER (SEE NOTE 2)	TOLERANCE (SEE NOTE 1)	FAILURE RATE (NOTE 3)
Black	0	1		
Brown	1	10		1.0
Red	2	100		0.1
Orange	3	1,000		0.01
Yellow	4	10,000		0.001
Green	5	100,000		
Blue	6	1,000,000		
Violet	7	10,000,000		
Gray	8	100,000,000		
White	9	1,000,000,000		Solderable
Gold		0.1	+5%	
Silver		0.01	+10%	
No Color			+20%	

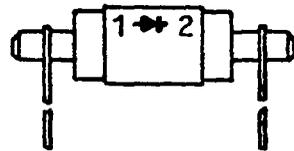
NOTE 1: See Table D for tolerances of KS-Spec. composition resistors.

NOTE 2: The multiplier is the factor by which the first two digits shall be multiplied to obtain the nominal resistance in ohms.

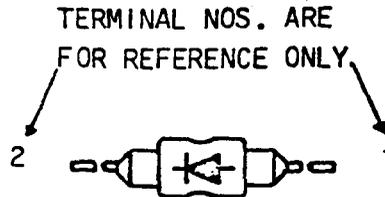
NOTE 3: Indicates a percent failure factor, e.g., the 5th (E) band of orange would indicate; 1,000 hrs. x .01 = 100,000 hrs. resistor life.

TABLE D POWER RATINGS AND TOLERANCES  
ON KS-SPEC. RESISTORS (PAR. 3.21)

<u>TYPE</u>		<u>POWER RATING</u> <u>(watts)</u>	
KS-13490		1/2	
KS-13491		1	
KS-13492		2	
LIST NO. FOR ABOVE RESISTORS	INITIAL MFR TOLERANCE	AFTER SHOP- INSTALLATION OR SHELF-AGING	LONG-TERM OPERATION TOLERANCE (NOTE 1)
L1	±5%	-8 to +11%	-20 to +30%
L2	±10%	-13 to +16%	-25 to +35%
L3	+20%	-23 to +26%	-35 to +45%
<b>NOTE 1:</b> The tolerances in this column should be noted before replacement of resistors in non critical paths.			



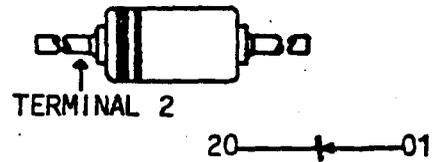
(400, 404, 444 TYPES)



(420, 440 TYPES)



(441 TYPE)



(456, 457, 458, 459, TYPES)

NOTE 1



(480, 488 TYPES)

NOTE 2

FIGURE 3 (PAR. 411)

NOTES 1: The wide band designates the negative end of the diode when it is forward biased.  
(Refer to Table E for color coding)

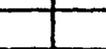
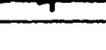
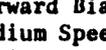
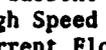
NOTE 2: The color mark (red or gray) indicates the negative end of the diode when it is forward biased.

TABLE E  
 GENERAL DESCRIPTION OF 456 AND 457 TYPE  
 SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
456A	Black	Brown	0.2W, 100V Min.		1.57" Nom.	X	X	1,3,4
B	Black	Red	0.2W, 200V Min		1.57" Nom.	X	X	1,3,4
F	Black	Blue	0.2W, 100V Min.		1.57" Nom.	X	X	1,3,4
457D	Black	Yellow	No Info. Available		1.57" Nom.	X	X	2,4,5
E	Black	Green			1.57" Nom.	X	X	2,4,5
F	Black	Blue	15.3 Nom. Volt Breakdown		1.57" Nom.	X	X	2,4,5,6
G	Black	Violet	12.45 Nom. Volt Breakdown		1.57" Nom.	X	X	2,4,5,6
H	Black	Gray	250 Milliwatt		1.57" Nom.	X	X	2,4,7
AA	Brown	Brown	250 Milliwatt		1.57" Nom.	X	X	2,4,7

- NOTES:
1. Diode Body Colored Blue.
  2. Diode Body Colored Violet.
  3. Used as Rectifier.
  4. Wide Band Indicates the Negative End When Forward Biased.
  5. Multiple Semi-conductor Type Used Only in T-1 Carrier Systems.
  6. Two 459 Type Diodes Connected in Series and used in Milliwatt Reference Generator.
  7. Used as Voltage Regulator.

TABLE F  
GENERAL DESCRIPTION OF 458 SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH.	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
458A	Black	Brown	75V Min.		1.57" Nom.	X	X	1,2,3
B	Black	Red	75V Min.		1.57" Nom.	X	X	1,2,3
C	Black	Orange	40V Min.		1.57" Nom.	X	X	1,2,4
D	Black	Yellow	40V Min.		1.57" Nom.	X	X	1,2,4
E	Black	Green	50V Min.		1.57" Nom.	X	X	1,2,5
F	Black	Blue	No Info. Available		1.57" Nom.	X	X	1,2,6
G	Black	Violet	No Info. Available		1.57" Nom.	X	X	1,2,4
H	Black	Gray	No Info. Available		1.57" Nom.	X	X	1,2,5
J	Black	White	No Info. Available		1.57" Nom.	X	X	1,2,5
AA	Brown	-	No Info. Available		1.57" Nom.	X	X	1,2,3

- NOTES:**
1. Diode Body Colored Gray.
  2. Wide Band Indicates the Negative End When Forward Biased.
  3. Used for Medium Speed Switching with Medium Current Flow.
  4. Used for High Speed Switching with Low Current Flow.
  5. Used for High Speed Switching with Medium Current Flow.
  6. Used for High Speed Switching with Controlled Voltage at Very Low Current.

**TABLE G**  
**GENERAL DESCRIPTION OF 459 TYPE SILICONE DIFFUSED JUNCTION DIODES**

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING (NOTE-2)	SYMBOL		SWC	SOLDER	
459B	Black	Red	6.2V + 5%		1.57" Nom.	X	X	1,2,3
C	Black	Orange	6.8V + 5%		1.57" Nom.	X	X	1,2,3
D	Black	Yellow	7.5V + 5%		1.57" Nom.	X	X	1,2,3
E	Black	Green	8.2V + 5%		1.57" Nom.	X	X	1,2,3
F	Black	Blue	9.1V + 5%		1.57" Nom.	X	X	1,2,3
G	Black	Violet	10.0V + 5%		1.57" Nom.	X	X	1,2,3
H	Black	Gray	11.0V + 5%		1.57" Nom.	X	X	1,2,3
J	Black	White	12.0V + 5%		1.57" Nom.	X	X	1,2,3
AA	Brown	Brown	13.0V + 5%		1.57" Nom.	X	X	1,2,3
AB	Brown	Red	15.0V + 5%		1.57" Nom.	X	X	1,2,3
AC	Brown	Orange	16.0V + 5%		1.57" Nom.	X	X	1,2,3
AD	Brown	Yellow	18.0V + 5%		1.57" Nom.	X	X	1,2,3
AE	Brown	Green	20.0V + 5%		1.57" Nom.	X	X	1,2,3
AF	Brown	Blue	22.0V + 5%		1.57" Nom.	X	X	1,2,3
AG	Brown	Violet	24.0V + 5%		1.57" Nom.	X	X	1,2,3
AH	Brown	Gray	27.0V + 5%		1.57" Nom.	X	X	1,2,3
AJ	Brown	White	30.0V + 5%		1.57" Nom.	X	X	1,2,3
BA	Red	Brown	33.0V + 5%		1.57" Nom.	X	X	1,2,3
BB	Red	Red	36.0V + 5%		1.57" Nom.	X	X	1,2,3
BC	Red	Orange	39.0V + 5%		1.57" Nom.	X	X	1,2,3
BD	Red	Yellow	43.0V + 5%		1.57" Nom.	X	X	1,2,3
BE	Red	Green	47.0V + 5%		1.57" Nom.	X	X	1,2,3
BF	Red	Blue	51.0V + 5%		1.57" Nom.	X	X	1,2,3
BG	Red	Violet	56.0V + 5%		1.57" Nom.	X	X	1,2,3
BH	Red	Gray	62.0V + 5%		1.57" Nom.	X	X	1,2,3

Continued

TABLE G (Cont'd)  
GENERAL DESCRIPTION OF 459 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING (NOTE-2)	SYMBOL		SWC	SOLDER	
BJ	Red	White	68.0V + 5%		1.57" Nom.	X	X	1,2,3
CA	Orange	Brown	75.0V + 5%		1.57" Nom.	X	X	1,2,3
CB	Orange	Red	82.0V + 5%		1.57" Nom.	X	X	1,2,3
CC	Orange	Orange	91.0V + 5%		1.57" Nom.	X	X	1,2,3
CD	Orange	Yellow	100.0V + 5%		1.57" Nom.	X	X	1,2,3
CE	Orange	Green	110.0V + 5%		1.57" Nom.	X	X	1,2,3
CF	Orange	Blue	120.0V + 5%		1.57" Nom.	X	X	1,2,3
CG	Orange	Violet	130.0V + 5%		1.57" Nom.	X	X	1,2,3
CH	Orange	Green	150.0V + 5%		1.57" Nom.	X	X	1,2,3

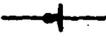
- NOTES:
1. Diode Body Colored White.
  2. All 459 Type Diodes are Rated at 250 Milliwatts.
  3. Wide Band Indicates Negative End When Forward Biased. Absence of a Second Band Indicates that it is the Same as the Body Color.

TABLE H  
GENERAL DESCRIPTION OF 521 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
521A	Brown	-	7.6 + 0.4V		1.5"		X	1,2,3
B	Red	-	16 + 1.6V		1.5"		X	1,2,3
C	Orange	-	20 + 2.0V		1.5"		X	1,2,3
D	Yellow	-	60 + 6.0V		1.5"		X	1,2,3
E	Green	-	21.6 - 24.5V		1.5"		X	1,2,3
F	Blue	-	28.0 - 36.0V		1.5"		X	1,2,3
G	Violet	-	40.0 + 4V		1.5"		X	1,2,3
H	Gray	-	10.0 + .5V		1.5"		X	1,2,3
I	White	-	210V Min.		1.5"		X	1,2,3
AA	Brown	Brown	19V + 10%		1.5"	X	X	1,2,4
AB	Brown	Red	32V + 12.5%		1.5"	X	X	1,2,4
AC	Brown	Orange	60V Min.		1.5"	X	X	1,2,4
AD	Brown	Yellow	21V Min.		1.5"	X	X	1,2,4
AE	Brown	Green	200 - 250V		1.5"	X	X	1,2,4
BA	Brown	Brown	40V + 10%		1.5"		X	1,2,3

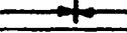
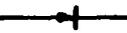
- NOTES: 1. Diode Body Colored White.  
2. Used for Surge Protection.  
3. A Bidirectional Diode.  
4. A Unidirectional Diode.

TABLE J  
GENERAL DESCRIPTION OF 533 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
533A	Gray	-	.75W, 65V		2.1"	X	X	1,2
B	Yellow	-	.75W, 200V		1.5"		X	1,2
C	Gray	-	.75W, 65V		1.5"		X	1,2
D	Gray	Gray	.75W, 65V		1.5"		X	1,2,4
E	Yellow	-	.75W, 200V		2.1"	X	X	1,2
F	Green	-	.75W, 400V		1.5"	X	X	1,2
G	Blue	-	120V		1.5"	X	X	1,3
H	Blue	Blue	400V		1.5"	X	X	1,3
J	Red	Red	.75W, 600V		1.5"	X	X	1,2
K	Red	-	.75W, 1000V		1.5"	X	X	1,2
L	Yellow	Yellow	.75W, 100V		2.1"	X	X	1,2

- NOTES:**
1. Diode Body Colored Black.
  2. Used as Rectifier Diode.
  3. Used as Medium Speed Switching Diode.
  4. Same as 533C Except for Additional Forward Voltage Requirement.

**TABLE K**  
**GENERAL DESCRIPTION OF 804 TYPE SILICON DIFFUSED JUNCTION DIODES**

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
804A	Brown	-	3.0W, 75V		1.15"		X	1,2
B	Black	Red	3.0W, 400V		1.15"		X	1,2
C	Black	Orange	3.0W, 600V		1.15"		X	1,2
D	Black	Yellow	3.0W, 120V		1.15"		X	1,3
E	Black	Green	3.0W, 250V		1.15"		X	1,3
F	Black	Blue	3.0W, 4.7V $\pm$ 5%		1.15"		X	1,4
G	Black	Violet	3.0W, 5.05V $\pm$ 3%		1.15"		X	1,4
H	Black	Gray	3.0W, 6.2V $\pm$ 5%		1.15"		X	1,4
J	Black	White	3.0W, 6.26V $\pm$ 2.5%		1.15"		X	1,4
AA	Brown	Brown	3.0W, 12V $\pm$ 5%		1.15"		X	1,4
AB	Brown	Red	3.0W, 15V $\pm$ 5%		1.15"		X	1,4
AC	Brown	Orange	3.0W, 18V $\pm$ 5%		1.15"		X	1,4
AD	Brown	Yellow	3.0W, 22V $\pm$ 5%		1.15"		X	1,4
AE	Brown	Green	3.0W, 27V $\pm$ 5%		1.15"		X	1,4
AF	Brown	Blue	3.0W, 68V $\pm$ 5%		1.15"		X	1,4
AG	Brown	Violet	3.0W, 6.8V $\pm$ 5%		1.15"		X	1,4
AH	Brown	Gray	3.0W, 18V		1.15"		X	1,4
AJ	Brown	White	3.0W, 120V		1.15"		X	.

- NOTES:**
1. Diode Body Colored Black.
  2. Used as a Rectifier Diode.
  3. Used as a Medium Speed Switching Diode.
  4. Used as a Voltage Regulator Diode.

TABLE L  
GENERAL DESCRIPTION OF 808 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
808A	Black	Brown	5.6V + 5%		1.5"	X	X	1,2,3
B	Black	Red	6.2V Nom.		1.5"	X	X	1,2,3
C	Black	Orange	6.8V Nom.		1.5"	X	X	1,2,3
D	Black	Yellow	7.5V Nom.		1.5"	X	X	1,2,3
E	Black	Green	8.2V Nom.		1.5"	X	X	1,2,3
F	Black	Blue	9.1V Nom.		1.5"	X	X	1,2,3
G	Black	Violet	10.0V Nom.		1.5"	X	X	1,2,3
H	Black	Gray	11.0V Nom.		1.5"	X	X	1,2,3
J	Black	White	12.0V Nom.		1.5"	X	X	1,2,3
AA	Brown	Brown	13.0V Nom.		1.5"	X	X	1,2,3
AB	Brown	Red	15.0V Nom.		1.5"	X	X	1,2,3
AC	Brown	Orange	16.0V Nom.		1.5"	X	X	1,2,3
AD	Brown	Yellow	18.0V Nom.		1.5"	X	X	1,2,3
AE	Brown	Green	20.0V Nom.		1.5"	X	X	1,2,3
AF	Brown	Blue	22.0V Nom.		1.5"	X	X	1,2,3
AG	Brown	Violet	24.0V Nom.		1.5"	X	X	1,2,3
AH	Brown	Gray	27.0V Nom.		1.5"	X	X	1,2,3
AJ	Brown	White	30.0V Nom.		1.5"	X	X	1,2,3
BA	Red	Brown	33.0V Nom.		1.5"	X	X	1,2,3
BB	Red	Red	36.0V Nom.		1.5"	X	X	1,2,3
BC	Red	Orange	39.0V Nom.		1.5"	X	X	1,2,3
BD	Red	Yellow	43.0V Nom.		1.5"	X	X	1,2,3
BE	Red	Green	47.0V Nom.		1.5"	X	X	1,2,3
BF	Red	Blue	51.0V Nom.		1.5"	X	X	1,2,3
BG	Red	Violet	56.0V Nom.		1.5"	X	X	1,2,3

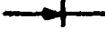
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TABLE L (Cont'd)  
GENERAL DESCRIPTION OF 808 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SMC	SOLDER	
808BH	Red	Gray	62.0V Nom.		1.5"	X	X	1,2,3
BJ	Red	White	68.0V Nom.		1.5"	X	X	1,2,3
CA	Orange	Brown	75.0V Nom.		1.5"	X	X	1,2,3
CB	Orange	Red	82.0V Nom.		1.5"	X	X	1,2,3
CC	Orange	Orange	91.0V Nom.		1.5"	X	X	1,2,3
CD	Orange	Yellow	100.0V Nom.		1.5"	X	X	1,2,3
CE	Orange	Green	4.25V + 4%		1.5"	X	X	1,2,3
CF	Orange	Blue	4.7V + 5%		1.5"	X	X	1,2,3
CG	Orange	Violet	5.0V + 2%		1.5"	X	X	1,2,3
CH	Orange	Gray	200V Min.		1.5"	X	X	1,2,3
CJ	Orange	White	6.9V + 5%		1.5"	X	X	1,2,3
DA	Yellow	Brown	18.0V + 10%		1.5"	X	X	1,2,3
DB	Yellow	Red	200V + 10%		1.5"	X	X	1,2,3
DC	Yellow	Orange	6.2V + 2%		1.5"	X	X	1,2,3
DD	Yellow	Yellow	9.1V + 2%		1.5"	X	X	1,2,3
DE	Yellow	Green	5.0V + 2%		1.5"	X	X	1,2,3
DH	Yellow	Gray	5.6V + 5%		1.5"	X	X	1,2,3
DJ	Yellow	White	18.0V + 5%		1.5"	X	X	1,2,3
EA	Green	Brown	15.0V + 5%		1.5"	X	X	1,2,3
EB	Green	Red	4.5V + 5%		1.5"	X	X	1,2,3

- NOTES: 1. All Diodes are Rated at 0.75 Watt.  
2. Diode Body Colored Gray.  
3. Used as Voltage Regulators.

TABLE M  
GENERAL DESCRIPTION OF 813 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
813A	Brown	-	120V + 5%		1.4"	X	X	1,2,3
B	Red	-	250V + 5%		1.4"	X	X	1,2,4
C	Orange	-	500V + 5%		1.4"	X	X	1,2,4
D	Yellow	-	600V + 5%		1.4"	X	X	1,2,4
E	Green	-	4.7V + 5%		1.4"	X	X	1,2,5
F	Blue	-	5.0V + 5%		1.4"	X	X	1,2,5
H	Gray	-	6.8V + 5%		1.4"	X	X	1,2,5
AA	Brown	Brown	8.2V + 5%		1.4"	X	X	1,2,5
AB	Brown	Red	12.0V + 5%		1.4"	X	X	1,2,5
AC	Brown	Orange	13.0V + 5%		1.4"	X	X	1,2,5
AD	Brown	Yellow	15.0V + 5%		1.4"	X	X	1,2,5
AE	Brown	Green	18.0V + 5%		1.4"	X	X	1,2,5
AF	Brown	Blue	22.0V + 5%		1.4"	X	X	1,2,5
AG	Brown	Violet	27.0V + 5%		1.4"	X	X	1,2,5
AH	Brown	Gray	33.0V + 5%		1.4"	X	X	1,2,5
AJ	Brown	White	68.0V + 5%		1.4"	X	X	1,2,6
BA	Red	Brown	75.0V + 5%		1.4"	X	X	1,2,5
BB	Red	Red	105.0V + 5%		1.4"	X	X	1,2,5

- NOTES:
1. All Diodes Rated at 1.0 Watt.
  2. Diode Body Colored Black.
  3. Used for Medium Speed Switching.
  4. Used as a Power Diode.
  5. Used as a Voltage Regulator.
  6. Used as a Rectifier Diode.

TABLE N  
GENERAL DESCRIPTION OF 824 TYPE SILICON DIFFUSED JUNCTION DIODES

DIODE CODE NO.	BAND COLOR		DIODE DESCRIPTION		PT LEAD LGTH	TYPE OF CONNECTION		NOTES
	1ST WIDE	2ND NARROW	RATING	SYMBOL		SWC	SOLDER	
824B	Red	-	400V		1.4"	X	X	1,2,3
D	Yellow		120V		1.4"	X	X	1,2,4
F	Black	Blue	4.7V $\pm$ 5%		1.4"	X	X	1,2,5
G	Black	Violet	5.05V $\pm$ 3%		1.4"	X	X	1,2,5
H	Black	Gray	6.2V $\pm$ 5%		1.4"	X	X	1,2,5
J	Black	White	6.26V $\pm$ 2.5%		1.4"	X	XX	1,2,5
AG	Brown	Violet	6.8V $\pm$ 5%		1.4"	X	X	1,2,5
BA	Red	Brown	8.2V $\pm$ 5%		1.4"	X	X	1,2,5
BB	Red	Red	5.6V $\pm$ 3%		1.4"	X	X	1,2,5

- NOTES:
1. All Diodes Rated at 2.0 Watts.
  2. Diode Body Colored Black.
  3. Used as a Rectifier Diode.
  4. Used for Medium Speed Switching.
  5. Used as a Voltage Regulator.

Reason for Reissue:  
Cancel existing Table E on diodes and  
add Tables E through N on diodes.

Engineering Planning Manager  
(Installation)