

 **SUNRAY  
LIGHTING INC**



**TRUE 360™  
LED MINIATURE  
SPECIFICATION GUIDE**

**AN EXPLOSION OF NEW TECHNOLOGY**



## Features and Benefits

**Major Reduction** *in Heat Generation*

**Shatter Resistant** *Plastic Envelope*

**AC-DC** *Bi Polar Design*

**Low Maintenance** */Labor Savings*

**True 360** *Degree Viewing Angle*


**Long Life** *100,000 Hours*

**Low Power** *Consumption*


**Solid State** *High Shock/Vibration Resistant*


	<b>LM0506WB</b>	<b>T1 3/4 Wedge Base 6.3 Volt</b>	
		<b>20mA, 0.12Watt. Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.00	590.00
	Red	1.50	618.00
	Blue	0.50	470.00
	Green	2.00	525.00
White	0.55		
Warm White	0.45		
Can replace these bulbs	<b>56, 79, 86</b>		

	<b>LM0512WB</b>	<b>T1 3/4 Wedge Base 12 Volt</b>	
		<b>20mA, 0.24Watt. Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.00	590.00
	Red	1.50	618.00
	Blue	0.50	470.00
	Green	2.00	525.00
White	0.55		
Warm White	0.45		
Can replace these bulbs	<b>18, 37, 73, 74</b>		

	<b>LM1006MB</b>	<b>T3 1/4 Miniature Bayonet Base 6.3 Volt</b>	
		<b>75mA, 0.47Watt, Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.85	590.00
	Red	3.80	629.00
	Blue	0.88	470.00
	Green	3.85	525.00
White	3.10		
Warm White	2.50		
Can replace these bulbs	<b>6MB, 51, 55, 44, 47, 239, 755, 1406, 1847, 1850, 1866, 1810, 1888, 1906</b>		

	<b>LM1006WB</b>	<b>T3 1/4 Wedge Base 6.3 Volt</b>	
		<b>75mA, 0.47Watt, Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.54	590.00
	Red	3.15	629.00
	Blue	0.80	470.00
	Green	3.50	525.00
White	2.80		
Warm White	2.30		
Can replace these bulbs	<b>147, 259, 259X, 285, 447, 555</b>		

	<b>LM1006MS</b>	<b>T3 1/4 Miniature Screw Base 6.3 Volt</b>	
		<b>75mA, 0.47Watt, Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.85	590.00
	Red	3.80	629.00
	Blue	0.88	470.00
	Green	3.85	525.00
White	3.10		
Warm White	2.50		
Can replace these bulbs	<b>40, 46, 50, 133, 134, 401, 438, 502, 1482</b>		


	<b>LM1012MB</b>	<b>T3 1/4 Miniature Bayonet Base 12 Volt</b>	
		<b>30-56mA, (Depends on color). Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.85	590.00
	Red	3.80	629.00
	Blue	0.88	470.00
	Green	3.85	525.00
White	3.10		
Warm White	2.50		
Can replace these bulbs	<b>12MB, 53, 57, 182, 293, 756, 1445, 1488, 1815, 1816, 1889, 1891, 1893, 1895</b>		


	<b>LM1012WB</b>	<b>T3 1/4 Wedge Base 12 Volt</b>	
		<b>20-50mA, (Depends on color). Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.54	590.00
	Red	3.15	629.00
	Blue	0.80	470.00
	Green	3.50	525.00
White	2.80		
Warm White	2.30		
Can replace these bulbs	<b>158, 159, 161, 168, 184, 193, 194, 658</b>		


	<b>LM1012MS</b>	<b>T3 1/4 Miniature Screw Base 12 Volt</b>	
		<b>30-56mA, (Depends on color). Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.85	590.00
	Red	3.80	629.00
	Blue	0.88	470.00
	Green	3.85	525.00
White	3.10		
Warm White	2.50		
Can replace these bulbs	<b>52, 258, 428, 1446, 1449, 1487</b>		

	<b>LM1024MB</b>	<b>T3 1/4 Miniature Bayonet Base 24 Volt</b>	
		<b>30mA, 0.72Watt. Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.85	590.00
	Red	3.80	629.00
	Blue	0.88	470.00
	Green	3.85	525.00
White	3.10		
Warm White	2.50		
Can replace these bulbs	<b>24MB, 313, 757, 1818, 1819, 1820, 1829, 1843, 1864, 1873, 1437, 1450, 1484</b>		


	<b>LM1024WB</b>	<b>T3 1/4 Wedge Base 24 Volt</b>	
		<b>30mA, 0.72Watt. Bi-polar</b>	
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.54	590.00
	Red	3.15	629.00
	Blue	0.80	470.00
	Green	3.50	525.00
White	2.80		
Warm White	2.30		
Can replace these bulbs	<b>152, 400, 464, 585, 655, 656, 657</b>		


<b>LM1024MS</b>	<b>T3 1/4 Miniature Screw Base 24 Volt</b>		
	<b>30mA, 0.72Watt. Bi-polar</b>		
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	1.85	590.00
	Red	3.80	629.00
	Blue	0.88	470.00
	Green	3.85	525.00
	White	3.10	
Warm White	2.50		
Can replace these bulbs	<b>1448, 1821</b>		

<b>LM1048MB</b>	<b>T3 1/4 Miniature Bayonet Base 48 Volt</b>		
	<b>30mA, 0.72Watt. Bi-polar</b>		
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	0.50	590.00
	Red	0.95	629.00
	Blue	0.22	470.00
	Green	0.95	525.00
	White	0.78	
Warm White	0.65		
Can replace these bulbs	<b>48MB, 3T4/48V</b>		

<b>LM1060MB</b>	<b>T3 1/4 Miniature Bayonet Base 60 Volt</b>		
	<b>30mA, 0.72Watt. Bi-polar</b>		
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	0.60	590.00
	Red	1.20	629.00
	Blue	0.30	470.00
	Green	1.20	525.00
	White	1.00	
Warm White	0.85		
Can replace these bulbs	<b>60MB, 3T4/60V, 1835</b>		

<b>LM1090MB</b>	<b>T3 1/4 Miniature Bayonet Base 90 Volt</b>		
	<b>30mA, 0.72Watt. Bi-polar</b>		
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	0.90	590.00
	Red	1.90	629.00
	Blue	0.45	470.00
	Green	1.90	525.00
	White	1.50	
Warm White	1.20		
Can replace these bulbs	<b>90MB, 3T4/90V</b>		

<b>LM10120MB</b>	<b>T3 1/4 Miniature Bayonet Base 120 Volt</b>		
	<b>30mA, 0.72Watt. Bi-polar</b>		
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	0.75	590.00
	Red	1.50	629.00
	Blue	0.35	470.00
	Green	1.50	525.00
	White	1.20	
Warm White	1.00		
Can replace these bulbs	<b>120MB</b>		

<b>LM10160MB</b>	<b>T3 1/4 Miniature Bayonet Base 160 Volt</b>		
	<b>30mA, 0.72Watt. Bi-polar</b>		
		<u>Luminous Flux</u>	<u>Wave Length</u>
		Lumen	nm
	Amber	0.75	590.00
	Red	1.50	629.00
	Blue	0.35	470.00
	Green	1.50	525.00
	White	1.20	
Warm White	1.00		
Can replace these bulbs	<b>160MB</b>		

**New Warm White Part Numbers Available**

<b>LM0506WB</b>	<b>T1 3/4 Wedge Base 6.3 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM0512WB</b>	<b>T1 3/4 Wedge Base 12 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1006MB</b>	<b>T3 1/4 Miniature Bayonet Base 6.3 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1006WB</b>	<b>T3 1/4 Wedge Base 6.3 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1006MS</b>	<b>T3 1/4 Miniature Screw Base 6.3 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1012MB</b>	<b>T3 1/4 Miniature Bayonet Base 12 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1012WB</b>	<b>T3 1/4 Wedge Base 12.0 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1012MS</b>	<b>T3 1/4 Miniature Screw Base 12 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1024MB</b>	<b>T3 1/4 Miniature Bayonet Base 24 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

<b>LM1024WB</b>	<b>T3 1/4 Wedge Base 24 Volt</b>		
	<u>Luminous Flux</u>	<u>Wave Length</u>	
Warm White	0.45		

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<b>LM2006CS</b>	<b>T6 Candelabra Screw Base 6.3V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.54                    590.00
	Red                        3.15                    629.00
	Blue                        0.80                    470.00
	Green                      3.50                    525.00
	White                      2.80
Warm White              2.30	
Can replace these bulbs	<b>3S6/6V, 6S6/6V,</b>

<b>LM2012CS</b>	<b>T6 Candelabra Screw Base 12.8V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.85                    590.00
	Red                        3.80                    629.00
	Blue                        0.88                    470.00
	Green                      3.85                    525.00
	White                      3.10
Warm White              2.50	
Can replace these bulbs	<b>3S6/12V, 6S6/12V</b>

<b>LM2024CS</b>	<b>T6 Candelabra Screw Base 24V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.85                    590.00
	Red                        3.80                    629.00
	Blue                        0.88                    470.00
	Green                      3.85                    525.00
	White                      3.10
Warm White              2.50	
Can replace these bulbs	<b>3S6/24V, 6S6/24V, 509K</b>

<b>LM2030CS</b>	<b>T6 Candelabra Screw Base 30V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    0.95                    590.00
	Red                        1.90                    629.00
	Blue                        0.45                    470.00
	Green                      1.90                    525.00
	White                      1.50
Warm White              1.30	
Can replace these bulbs	<b>6S6/30V, 6S6/32V, 6S6/34V,1224K</b>

<b>LM2048CS</b>	<b>T6 Candelabra Screw Base 48V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.20                    590.00
	Red                        2.50                    629.00
	Blue                        0.58                    470.00
	Green                      2.50                    525.00
	White                      2.00
Warm White              1.60	
Can replace these bulbs	<b>6S6/48V</b>

<b>LM2060CS</b>	<b>T6 Candelabra Screw Base 60V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.85                    590.00
	Red                        3.80                    629.00
	Blue                        0.88                    470.00
	Green                      3.85                    525.00
	White                      3.10
Warm White              2.50	
Can replace these bulbs	<b>3S6/60V, 6S6/60V</b>

<b>LM2075CS</b>	<b>T6 Candelabra Screw Base 75V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.85                    590.00
	Red                        3.80                    629.00
	Blue                        0.88                    470.00
	Green                      3.85                    525.00
	White                      3.10
Warm White              2.50	
Can replace these bulbs	<b>3S6/75V, 6S6/75V</b>

<b>LM20120CS</b>	<b>T6 Candelabra Screw Base 120V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.85                    590.00
	Red                        3.80                    629.00
	Blue                        0.88                    470.00
	Green                      3.85                    525.00
	White                      3.10
Warm White              2.50	
Can replace these bulbs	<b>4C7/120V, 4C7/130V, 6S6/120V, 6S6/130V</b>

<b>LM20145CS</b>	<b>T6 Candelabra Screw Base 145V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    1.85                    590.00
	Red                        3.80                    629.00
	Blue                        0.88                    470.00
	Green                      3.85                    525.00
	White                      3.10
Warm White              2.50	
Can replace these bulbs	<b>6S6/135V, 6S6/145V, 6S6/155V, 6S6/160V</b>

<b>LM20220CS</b>	<b>T6 Candelabra Screw Base 220V</b>
	<b>30mA, 0.72Watt. Bi-polar</b>
	<u>Luminous Flux</u> <u>Wave Length</u>
	Lumen                    nm
	Amber                    0.90                    590.00
	Red                        1.90                    629.00
	Blue                        0.45                    470.00
	Green                      1.90                    525.00
	White                      1.50
Warm White              1.30	
Can replace these bulbs	<b>6S6/200V, 6S6/220V, 6S6/230V, 6S6/240V</b>