

CUSTOMER : _____

NO. : MKM-

EDIT :

DATE :

SPECIFICATION FOR APPROVAL

PRODUCT : 1.8" Single-Digit 7-Segment Numeric Display(2-Color)

MODEL NO. MD-1812/1819

APPROVAL			REVISION
CHK	CHK	APPD.	
REMARKS			



MIKWANG ELECTRONICS CO., LTD.

RM1401, 60-24, GASAN-DONG, GEUMCHEON-GU, SEOUL, KOREA

TEL : 82-2-2113-7700(Rep.) FAX : 82-2-2113-7707

URL : WWW.LED.CO.KR / E-MAIL : mkled7700@hanmail.net

MI KWANG ELECTRONICS MD-1812/1819

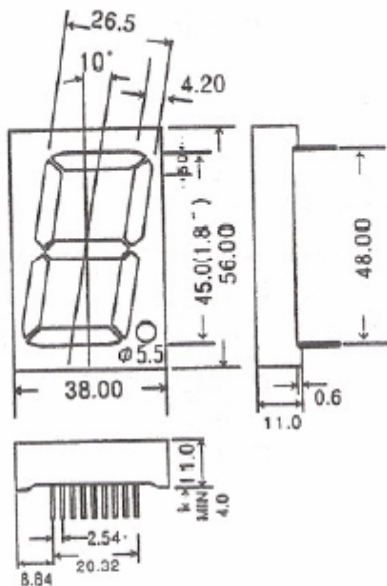
1.8 Inch Single-Digit 7-Segment Numeric Display(2-color)

GENERAL DESCRIPTION

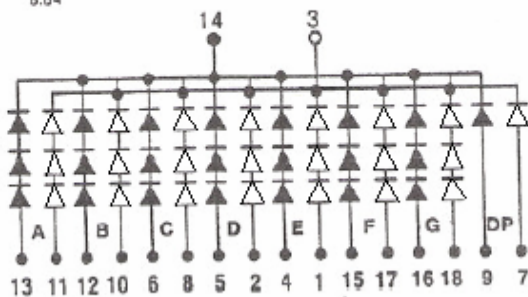
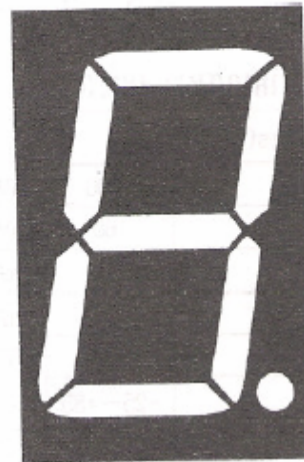
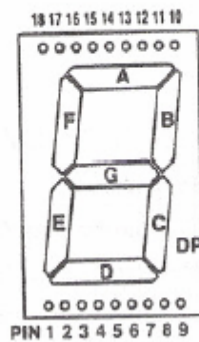
The MD-1812 and MD-1819 series are high performance epoxy resin molded 1-digit 7-segment LED displays for an application which space is at a premium.

The character height is approximately 1.8-inch(45.0mm) and available in red, green, orange and yellow-green emitting colors. The standard unit is constructed with black face and milky white segment color.

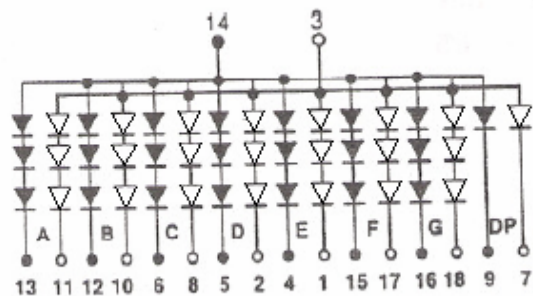
PACKAGE DIMENSIONS



ACTUAL SIZE



Cathode Common(MD-3-1812)



Anode Common(MD-3-1819)

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◆ Red MD-UR1812/UR1819 (AlGaAs/GaAs)

Absolute Maximum Ratings (Ta=25°C)

Power dissipation/total	880	mW
Power dissipation/seg	120	mW
Forward current	20	mA
Peak forward current	60	mA
Reverse voltage	15	V
Operating temperature	-25~+85	°C
Storage temperature	-55~+100	°C

Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward voltage/seg	V _f	I _f =10mA	-	5.4	6	V
Reverse current/seg	I _r	V _r =15V	-	-	10	μA
Luminous intensity/digit	I _v	I _f =10mA	450	1500	-	μcd
Peak wave length	λ _p	I _f =10mA	-	660	-	nm
Spectral line half width	Δλ	I _f =10mA	-	20	-	nm

◆ Green MD-UG1812/UG1819 (GaP)

Absolute Maximum Ratings (Ta=25°C)

Power dissipation/total	1048	mW
Power dissipation/seg	144	mW
Forward current	20	mA
Peak forward current	60	mA
Reverse voltage	15	V
Operating temperature	-25~+85	°C
Storage temperature	-55~+100	°C

Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward voltage/seg	V _f	I _f =10mA	-	6.6	7.2	V
Reverse current/seg	I _r	V _r =15V	-	-	10	μA
Luminous intensity/digit	I _v	I _f =10mA	800	1500	-	μcd
Peak wave length	λ _p	I _f =10mA	-	570	-	nm
Spectral line half width	Δλ	I _f =10mA	-	30	-	nm

- ◆ Pulse Width - 1ms
- Duty Cycle - 1/5