

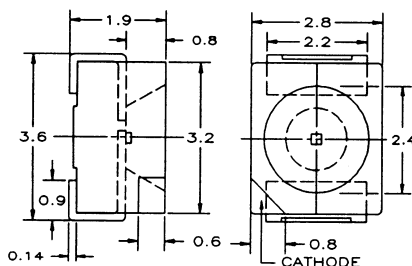
Surface Mount LED Lamps

FEATURES

- Excellent on/off contrasts
- Wide viewing angle
- Solid state reliability
- Choice of water clear or color clear lens
- Other colors/materials available

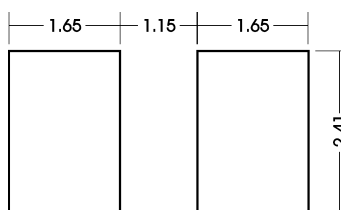
MAXIMUM RATINGS (Ta = 25°C)

PART NO.	FORWARD CURRENT (If) (mA)	REVERSE VOLTAGE (VR)(V)	POWER DISSIPATION (PD)(mW)	OPERATING TEMP (Topr) (°C)	STORAGE TEMP (Tstg) (°C)
MTSM135K-RG	30	5.0	85	-25~+85	-25~+100
MTSM235K-G	30	5.0	85	-25~+85	-25~+100
MTSM335K-Y	30	5.0	85	-25~+85	-25~+100
MTSM435K-HR	30	5.0	85	-25~+85	-25~+100
MTSM735K-UR	30	4.0	70	-25~+85	-25~+100
MTSM735KA-UR	30	4.0	70	-25~+85	-25~+100
MTSM145K-RG	30	5.0	85	-25~+85	-25~+100
MTSM245K-G	30	5.0	85	-25~+85	-25~+100
MTSM345K-Y	30	5.0	85	-25~+85	-25~+100
MTSM445K-O	30	5.0	85	-25~+85	-25~+100
MTSM445K-HR	30	5.0	85	-25~+85	-25~+100
MTSM745K-UR	30	4.0	70	-25~+85	-25~+100
MTSM745KA-UR	30	4.0	70	-25~+85	-25~+100



Note: Ultra bright red has reversed polarity.

Pad Layout

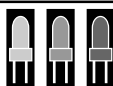


NOTES:

1. All dimensions are in mm.
2. Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.
3. An epoxy meniscus may extend about 1.0mm down the leads.
4. Burr around bottom of epoxy body may be 0.5mm MAX.

OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

PART NO.	MATERIAL	LENS COLOR	VIEWING ANGLE typ.	LUMINOUS INTENSITY (mcd)			FORWARD VOLTAGE (V)			REVERSE CURRENT		PEAK WAVE LENGTH
				min.	typ.	@mA	typ.	max.	@mA	μA	Vr	
MTSM135K-RG	GaP/GaP	Water Clear	120°	2.2	3.7	20	2.1	3.0	20	100	5	700
MTSM235K-G	GaP/GaP	Water Clear	120°	7.4	18.8	20	2.1	3.0	20	100	5	567
MTSM335K-Y	GaAsP/GaP	Water Clear	120°	6.2	15.6	20	2.1	3.0	20	100	5	585
MTSM435K-HR	GaAsP/GaP	Water Clear	120°	8.2	20.6	20	2.1	3.0	20	100	5	635
MTSM735K-UR	GaAlAs/GaAs	Water Clear	120°	112	140	20	1.9	2.5	20	100	4	660
MTSM735KA-UR	GaAlAs	Water Clear	120°	228	285	20	1.9	2.5	20	100	4	660
MTSM145K-RG	GaP/GaP	Red Clear	120°	2.2	3.7	20	2.1	3.0	20	100	5	700
MTSM245K-G	GaP/GaP	Green Clear	120°	7.4	18.8	20	2.1	3.0	20	100	5	567
MTSM345K-Y	GaAsP/GaAs	Yellow Clear	120°	6.2	15.6	20	2.1	3.0	20	100	5	585
MTSM445K-O	GaAsP/GaAs	Orange Clear	120°	8.2	20.6	20	2.1	3.0	20	100	5	635
MTSM445K-HR	GaAsP/GaAs	Red Clear	120°	8.2	20.6	20	2.1	3.0	20	100	5	635
MTSM745K-UR	GaAlAs/GaAs	Red Clear	120°	112	140	20	1.9	2.5	20	100	4	660
MTSM745KA-UR	GaAlAs	Red Clear	120°	228	285	20	1.9	2.5	20	100	4	660



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