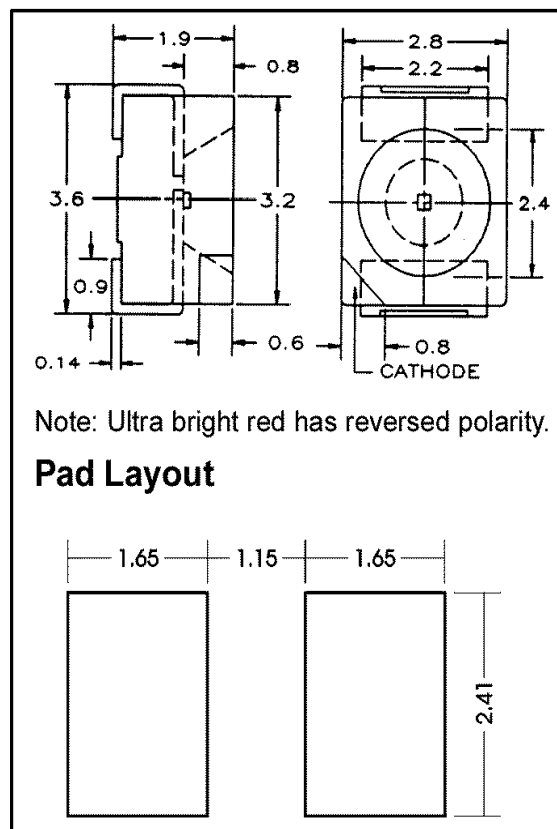


Features

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

Series Line-Up

Part Number	Color	Material
MTSM135K-RG	Red	GaP
MTSM145K-RG	Red	GaP
MTSM235K-G	Yellow Green	GaP
MTSM245K-G	Yellow Green	GaP
MTSM335K-Y	Pure Yellow	GaAsP
MTSM345K-Y	Pure Yellow	GaAsP
MTSM435K-HR	High Efficiency Red	GaAsP
MTSM445K-HR	High Efficiency Red	GaAsP
MTSM445K-O	High Efficiency Red	GaAsP
MTSM735K-UR	Ultra Bright Red	GaAlAs
MTSM735KA-UR	Ultra Bright Red	GaAlAs
MTSM745K-UR	Super Ultra Bright Red	GaAlAs
MTSM745KA-UR	Super Ultra Bright Red	GaAlAs



Maximum Ratings (Ta=25°C)

Part Number	Forward Current I _F	Reverse Voltage V _R	Power Dissipation P _D	Operating Temperature T _{opr}	Storage Temperature T _{stg}
MTSM135K-RG	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM145K-RG	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM235K-G	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM245K-G	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM335K-Y	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM345K-Y	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM435K-HR	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM445K-HR	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM445K-O	30	5	85.00	-25 ~ +85	-25 ~ +100
MTSM735K-UR	30	4	70.00	-25 ~ +85	-25 ~ +100
MTSM735KA-UR	30	4	70.00	-25 ~ +85	-25 ~ +100
MTSM745K-UR	30	4	70.00	-25 ~ +85	-25 ~ +100
MTSM745KA-UR	30	4	70.00	-25 ~ +85	-25 ~ +100
Unit	mA	V	mW	°C	°C

Company Headquarters

120 Broadway
Menands, New York 12204
Toll Free: 800.984.5337
Fax: 518.432.7454

West Coast Sales Office

100 Oceangate Blvd. #1200
Long Beach, CA 90802
Toll Free: 800.984.5337
Fax: 562.628.5572

Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λ_P	Material	View Angle $2\theta_{1/2}$	Luminous Intensity I_v				Forward Voltage V_F				Rev Current I_R	
				min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
MTSM135K-RG	700	GaP	120°	2.20	3.70	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM145K-RG	700	GaP	120°	2.20	3.70	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM235K-G	567	GaP	120°	7.40	18.80	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM245K-G	567	GaP	120°	7.40	18.80	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM335K-Y	585	GaAsP	120°	6.20	15.60	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM345K-Y	585	GaAsP	120°	6.20	15.60	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM435K-HR	635	GaAsP	120°	8.20	20.60	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM445K-HR	635	GaAsP	120°	8.20	20.60	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM445K-O	635	GaAsP	120°	8.20	20.60	–	20mA	–	2.10	3.00	20mA	100	5V
MTSM735K-UR	660	GaAlAs	120°	112.00	140.00	–	20mA	–	1.90	2.50	20mA	100	4V
MTSM735KA-UR	660	GaAlAs	120°	228.00	285.00	–	20mA	–	1.90	2.50	20mA	100	4V
MTSM745K-UR	660	GaAlAs	120°	112.00	140.00	–	20mA	–	1.90	2.50	20mA	100	4V
MTSM745KA-UR	660	GaAlAs	120°	228.00	285.00	–	20mA	–	1.90	2.50	20mA	100	4V
–	nm	–	deg	mcd			–	V			–	mA	–