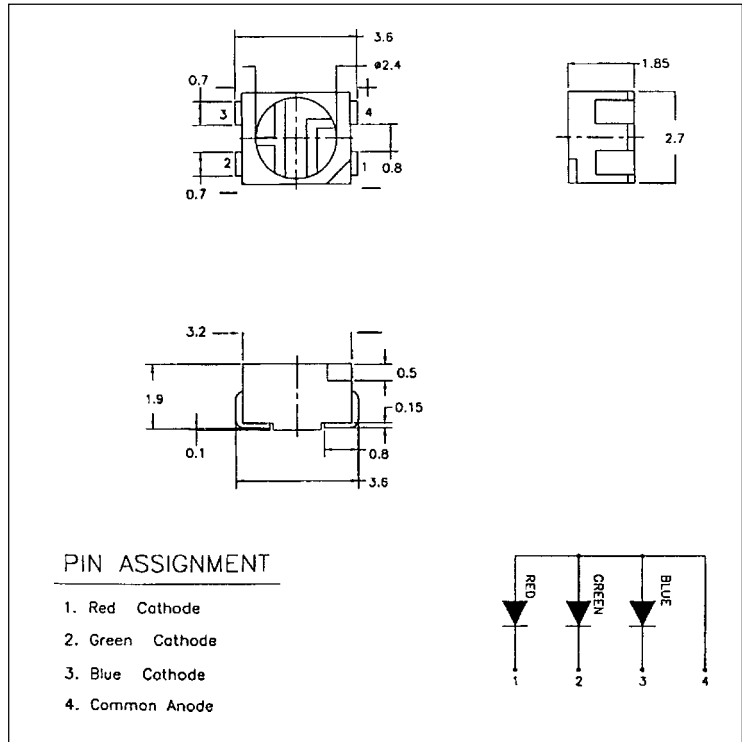


# Surface Mount LED

## MTSM4030-RGB

### FEATURES

- Single or Full Color Operation
- GaAsP Red and GaN Blue & Green
- Water Clear Epoxy
- Small Package Size 3.6(L) x 2.7(W) x 1.9(H)



### MAX. RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING			UNIT
		RED	GREEN	BLUE	
Power Dissipation	$P_D$	70	100	100	mW
Forward Current	$I_F$	25	25	25	mA
Peak Forward Current	$I_{FP}$	80	80	80	mA
Reverse Voltage	$V_R$	5	5	5	V
Operating Temperature	$T_{opr}$	-25~80			°C
Storage Temperature	$T_{stg}$	-30~85			°C
Infrared Soldering Condition	—	260°C for 5 seconds			
Vapor Phase Soldering Condition	—	215°C for 3 minutes			

### OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	RED			GREEN			BLUE			UNIT
			MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Forward Voltage	$V_F$	IF = 20mA	—	2.0	2.8	—	3.5	4.0	—	3.5	4.0	V
Reverse Current	$I_R$	VR = 5V	—	—	100	—	—	50	—	—	50	µA
Pak Emission Wavelength	$\lambda_p$	IF = 20mA	—	655	—	—	525	—	—	475	—	nm
Dominant Wavelength	$\lambda_d$	IF = 20mA	—	637	—	—	530	—	—	470	—	nm
Viewing Angle	$2\theta_{1/2}$	IF = 20mA	—	110	—	—	110	—	—	110	—	Deg
Luminous Intensity	$I_v$	IF = 20mA	250	350	—	650	750	—	200	280	—	mcd

# Surface Mount LED

## MTSM4030-RGB Graphs

