

## FEATURE

High Efficiency GaP red LED dice  
0.33 inch Character Height  
High Contrast  
Wide Viewing Angle  
Common Anode

## AVAILABLE IN COLOR

\* MS433FA    Red  
\* MO433FA    Orange

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

		<u>MS433FA</u>	<u>MO433FA</u>
Power Dissipation / Segment	$P_d$	40mW	90mW
Peak Forward Current / Segment	$I_{F/Pulse*}$	60mA	100mA
Continuous Forward Current / Segment	$I_{F/DC}$	15mA	30mA
Reverse Voltage / Segment	$V_R$	5V	5V
Operating Temperature Range	$T_{opr}$	-20 to +70°C	
Storage Temperature Range	$T_{stg}$	-20 to +80°C	

\* Note : Pulse Width = 1mS, Duty Ratio = 1/10.

## ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER		SYMBOL	MIN	TYP	MAX	UNIT	CONDITIONS
Forward Voltage	MS433FA	$V_F$			3.0	V	$I_F=20mA$
	MO433FA				3.0	V	$I_F=20mA$
Luminous Intensity	MS433FA	$I_V$	120	200		$\mu cd$	$I_F=10mA$
	MO433FA		250	400		$\mu cd$	$I_F=10mA$
Segment to Segment Luminous	MS433FA				2:1		$I_F=10mA$
Intensity Ratio	MO433FA				2:1		$I_F=10mA$
Peak Wavelength	MS433FA	$\lambda_p$		700		nm	$I_F=20mA$
	MO433FA			630		nm	$I_F=20mA$
Spectral Line Half Width	MS433FA	$\Delta\lambda$		100		nm	$I_F=20mA$
	MO433FA			30		nm	$I_F=20mA$



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