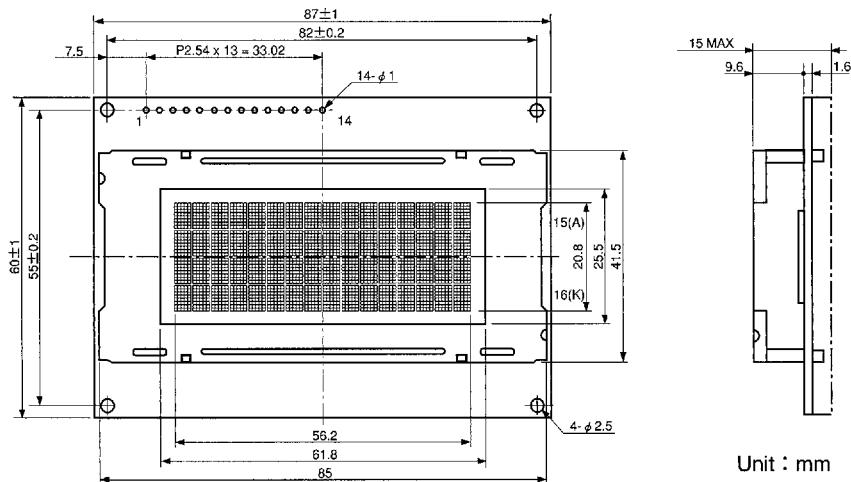


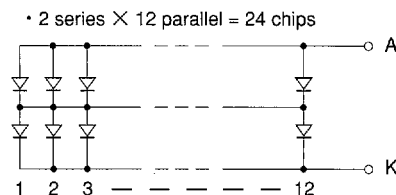
## GMD1640ALY With LED BACKLIGHTING

### ● Module Dimensions (with LED Backlighting)

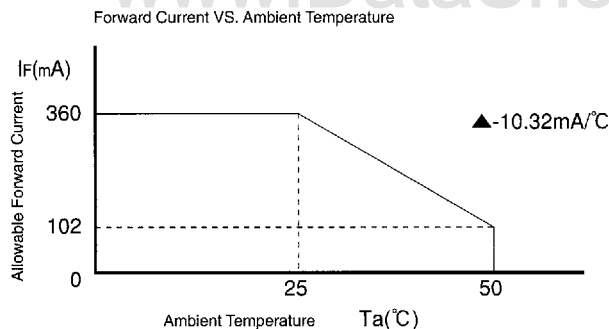


Unit : mm

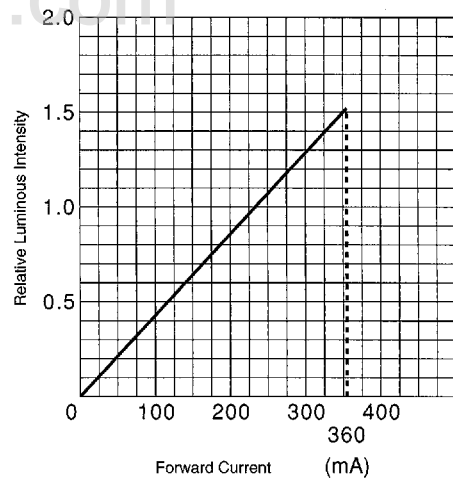
### ● Circuit Diagram of LED Backlighting



### ● Characteristics of LED Backlighting



Relative Luminous Intensity VS. Forward Current



※ The ratings and characteristics of LCD modules are specified with the assumption that the forward current supplied to the LED units will be varied according to the ambient temperature.

### ● Absolute Maximum Ratings and Characteristics of LED Backlighting

Item	Absolute Maximum Ratings			Electro-Optical Characteristics										
	Forward Current	Reverse Voltage	Power Dissipation	Forward Voltage		Reverse Current		Luminous Intensity		Peak Wavelength				
				Condition	Condition	Condition	Condition	Condition	Condition					
	$I_F$	$V_R$	$P_d$	$V_F$	$I_F$	$I_R$	$V_R$	$I_v$	$I_F$	$\lambda_p$	$I_F$			
MAX.	MAX.	MAX.	TYP.	MAX.	—	MAX.	—	TYP.	—	TYP.	—			
Part Number (*Emitted Color)	GMD 1640ALY (Yellow)	PY	360	8	1660	4.3	4.6	240	240	8	85	240	570	240
Unit			mA	V	mW	V	mA	$\mu A$	V	cd/m <sup>2</sup>	mA	nm	mA	

$T_a=25^\circ C$

Note: Above specifications should be applicable to the LED backlighting itself.