

*1 40 to 60% RH,AC for 1 minute.

*2 For 10 seconds.

^{*3} Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

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PHOTOCOUPLER

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Part Number: KB817-M

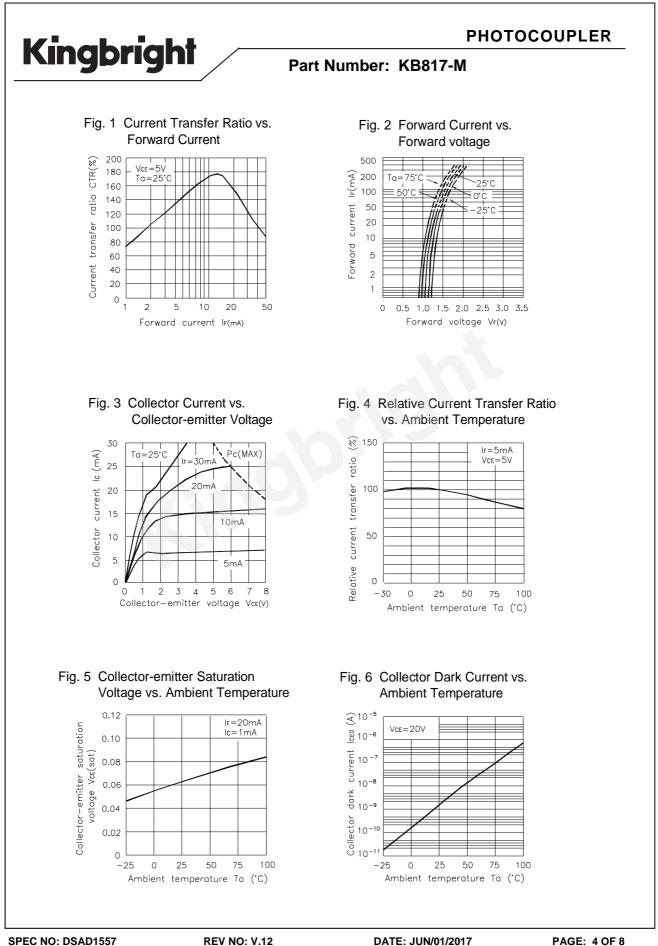
* Electro-optical Characteristics (TA=25°C)

Parameter			Symbol	Conditions	Min.	Тур.	Max.	Unit
Input	Forward voltage		VF	I⊧=20mA	_	1.2	1.4	V
	Peak forward voltage		VFM	Іғм=0.5А	_	_	3.0	V
	Reverse current		IR	V _R =4V	_	_	10	μΑ
Output	Collector dark current		ICEO	Vce=20V,IF=0mA	_	_	10 ⁻⁷	А
Transfer charact- eristics	^{*1} Current transfer ratio		CTR	IF=5mA, VCE=5V	50	_	600	%
	Collector-emitter saturation voltage		V _{CE} (sat)	l⊧=20mA, lc=1mA	_	0.1	0.2	V
	Cut-off frequency		fc	Vcε=5V, lc=2mA R⊾=100Ω, -3dB	-	80	_	kHz
	Response time	Rise time	tr	Vce=2V, Ic=2mA	-	4	18	μS
		Fall time	tf	Rι=100Ω	_	3	18	μS

*1 Classification table of current transfer ratio is shown below.

$$CTR = \frac{IC}{IF} \times 100\%$$

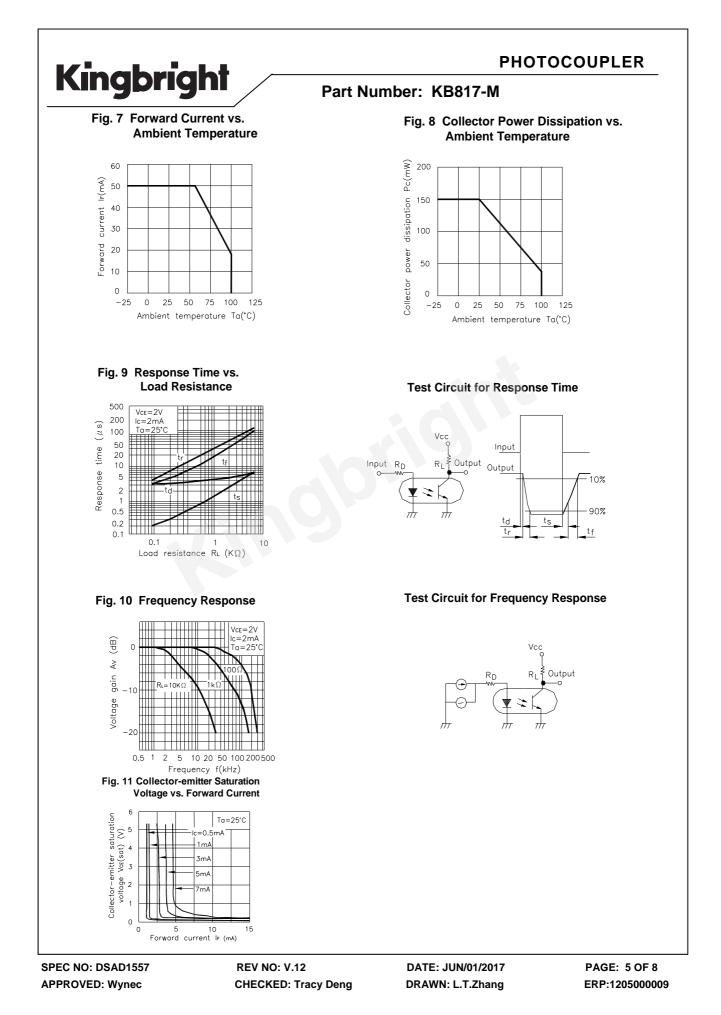
,			
Model No.	Rank mark	CTR (%)	
KB817L-M	L	50 to 100	
KB817A-M	A	80 to 160	
KB817B-M	В	130 to 260	
KB817C-M	С	200 to 400	
KB817D-M	D	300 to 600	
KB817AB-M	A or B	80 to 260	
KB817BC-M	B or C	130 to 400	
KB817CD-M	C or D	200 to 600	
KB817AC-M	A,B or C	80 to 400	
KB817BD-M	B,C or D	130 to 600	
KB817AD-M	A,B,C or D	80 to 600	
KB817-M	L,A,B,C,D or No mark	50 to 600	



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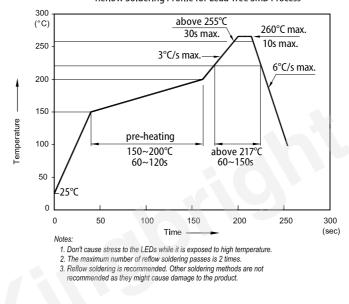
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Part Number: KB817-M

***NOTES ON HANDLING**

1.Cautions regarding noise

Be aware that power is suddenly into the componment any surge current may cause damage happen, even if the voltage is within the absolute maximum ratings.



Reflow Soldering Profile for Lead-free SMD Process

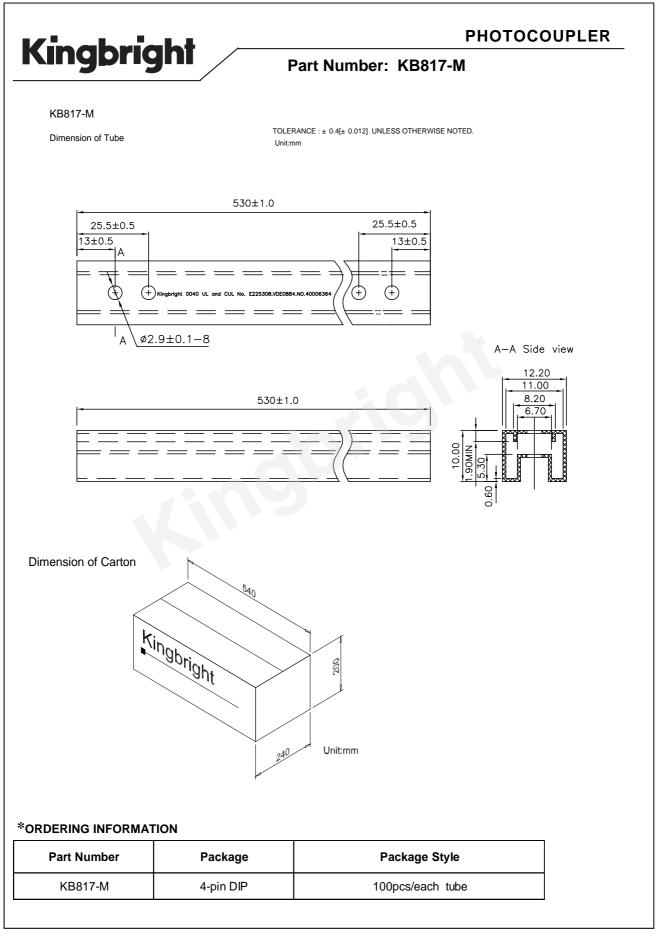
CAUTION

Within this device there exists GaAs (Gallium Arsenide) material which is a harmful substance if ingested. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them.

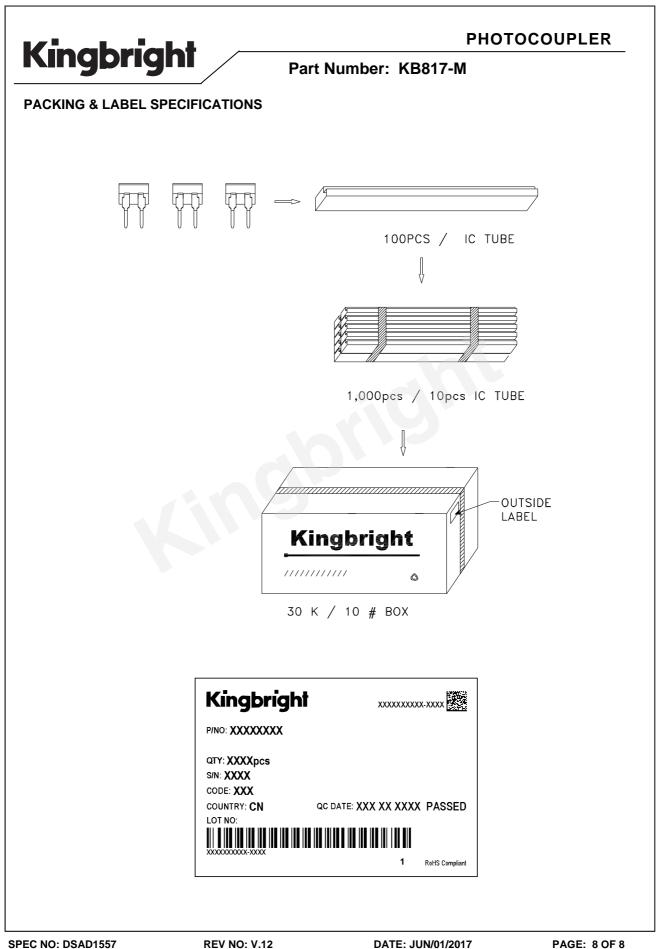
RESTRICTIONS ON PRODUCT USE

- The information in this document is subject to change without notice. Before using this document, please confirm that this is the latest version. Not all devices / types available in every country.
- We are mention about our product quality stablity, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing KINGBRIGHT products, to observe standards of safety, and to a avoid situations in which a malfunction or failure of a KINGBRIGHT product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that KINGBRIGHT products are used within specified operating ranges as set forth in the most recent products specifications.

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