

## PHOTOCOUPLER

# Part Number: KB355NT Customer Part Number: KB355NT

	Parameter	Symbol	Rating	Unit
Input	Forward current	lF	50	mA
	Reverse voltage	VR	6	V
	Power dissipation	Р	70	mW
Output Collector-emitter voltage VCEO   Emitter-collector voltage VECO   Collector current Ic   Collector power dissipation Pc	Collector-emitter voltage	Vceo	35	V
	Emitter-collector voltage	Veco	6	V
	Collector current	lc	80	mA
	150	mW		
Total power dissipation		Ptot	170	mW
* <sup>1</sup> Isolation voltage		Viso	3750	Vrms
Operating temperature		Topr	-30 to +100	°C
Storage temperature		Tstg	-40 to +125	°C
<sup>2</sup> Soldering temperature		Tsol	260	°C

#### \*Absolute Maximum Ratings (TA=25°C)

<sup>\*1</sup> 40 to 60% RH,AC for 1 minute.

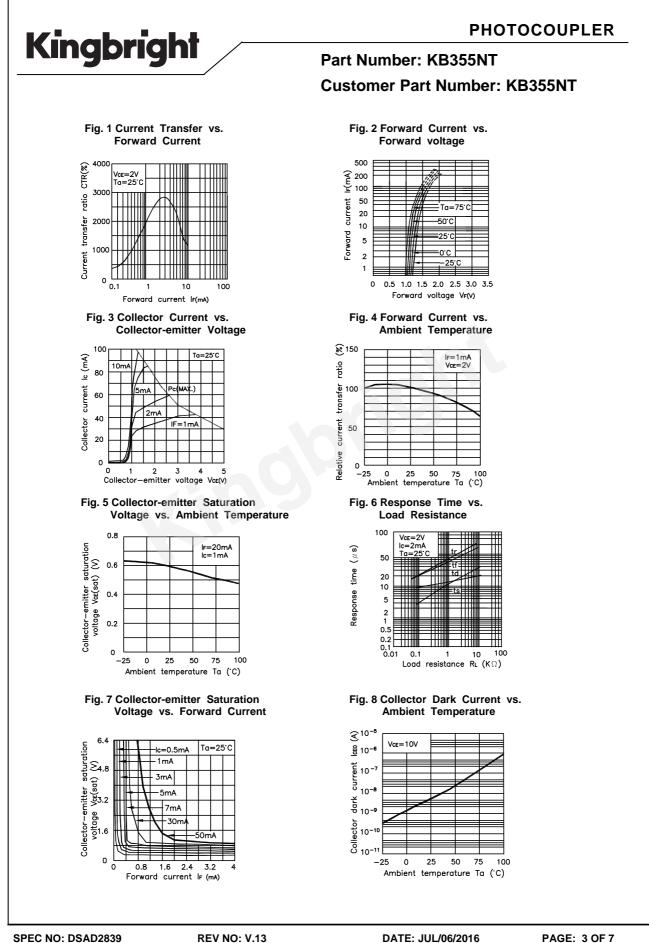
<sup>\*2</sup> For 10 seconds.

<sup>\*3</sup> 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.

### \*Electro-optical Characteristics

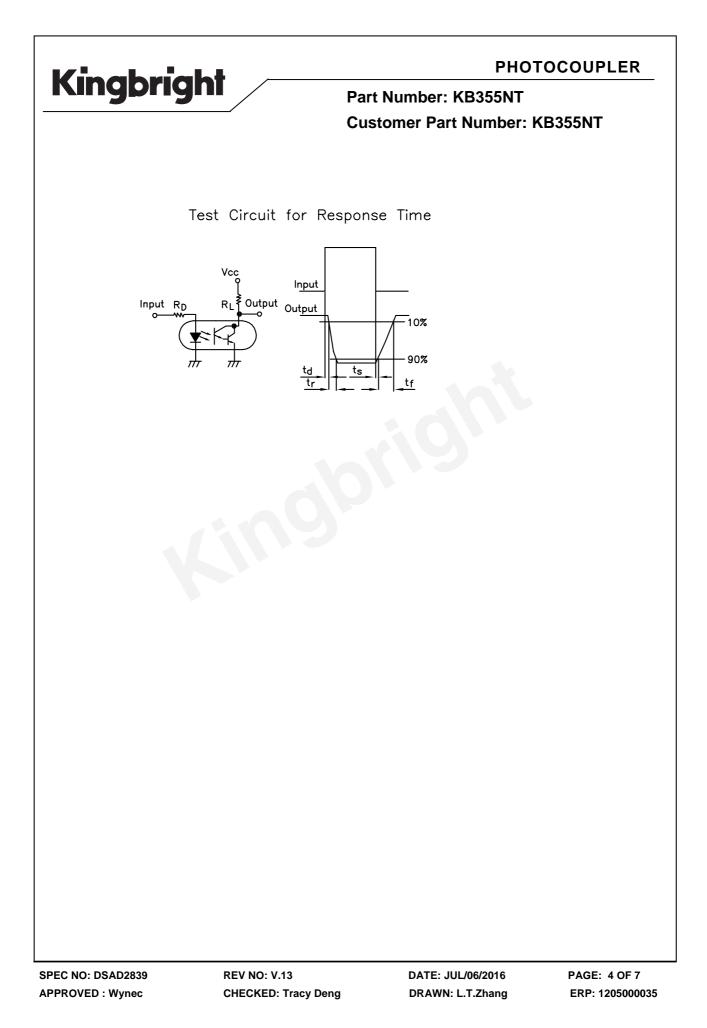
	Paramete	er	Symbol	Conditions	Min.	Тур.	Max.	Unit
Input	Forward voltage		VF	IF=20mA	-	1.2	1.4	V
	Peak forward voltage		Vfm	Іғм=0.5А	-	-	3.0	V
	Reverse current		IR	VR=4V	-	-	10	uA
Output	Collector dark current		ICEO	VCE=10V,IF=0	-	-	10 <sup>-6</sup>	А
	Collector-emitter breakdown voltage		BVCEO	Ic=0.1mA,IF=0	35	-	-	V
	Emitter-collector breakdown voltage		BVeco	IE=10uA,IF=0	6	-	-	V
Transfer Charac- teristics	Current transfer ratio		CTR	IF=1mA,VcE=2V	600	1600	7500	%
	Collector-emitter saturation voltage		VCE(sat)	IF=20mA,IC=1mA	-	0.8	1.0	V
	Response time	Rise time	Tr	Vce=2V,Ic=2mA RL=100Ω	-	60	300	uS
		Fall time	Tf		-	53	250	uS

SPEC NO: DSAD2839 APPROVED : Wynec REV NO: V.13 CHECKED: Tracy Deng DATE: JUL/06/2016 DRAWN: L.T.Zhang PAGE: 2 OF 7 ERP: 1205000035



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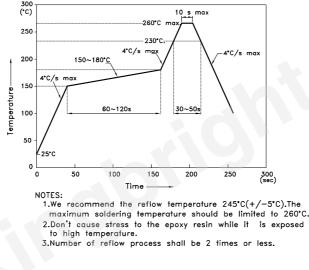
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## **\*NOTES ON HANDLING**

### 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.





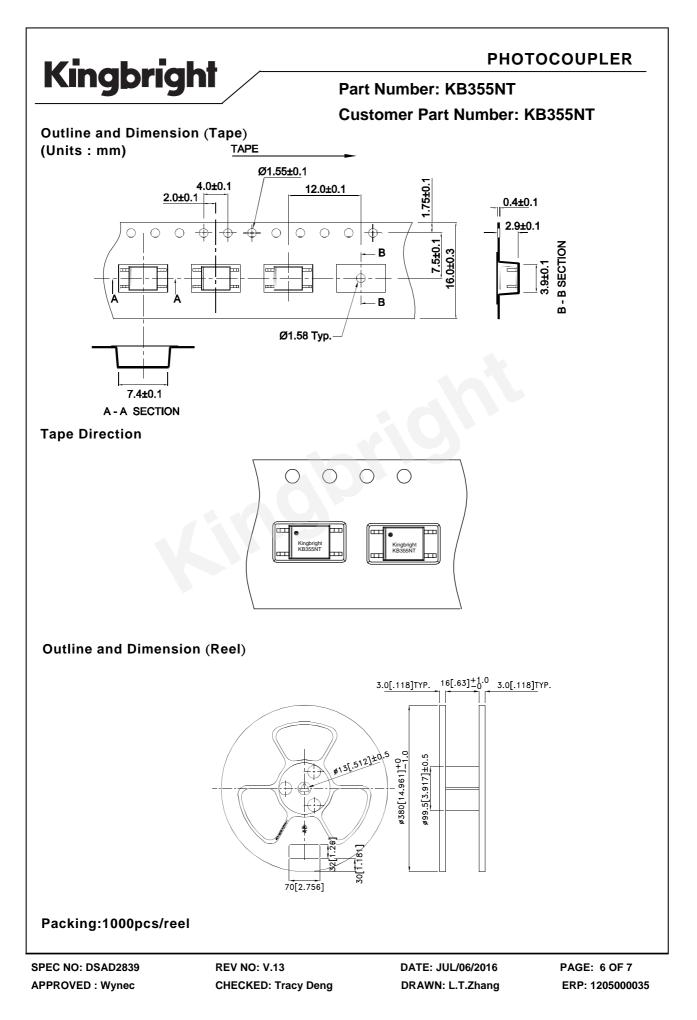
#### CAUTION

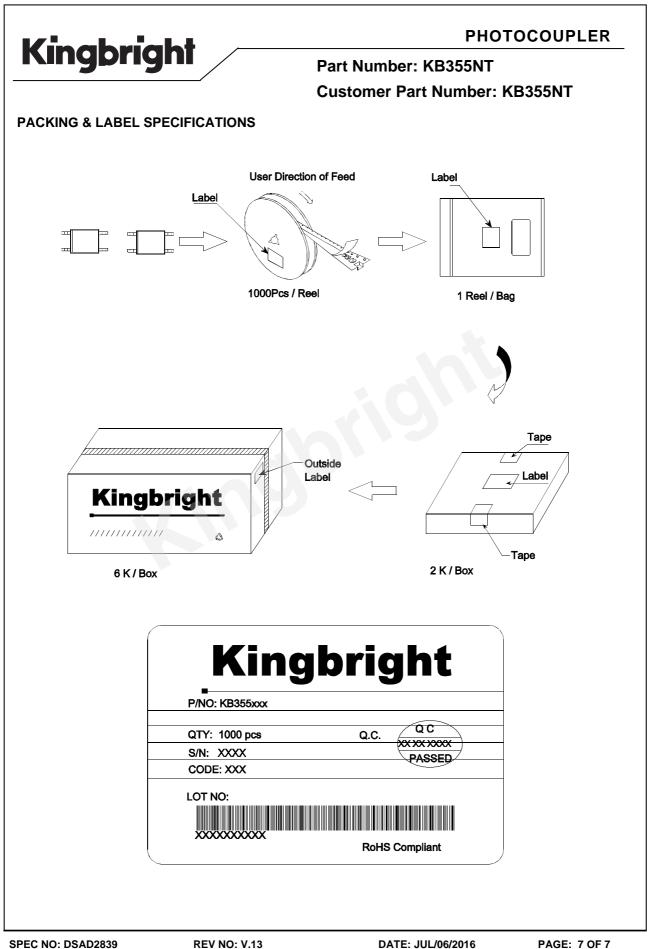
Within this device there exists GaAs (Gallium Arsenide) material which is a harmful substance if ingested. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them.

## 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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