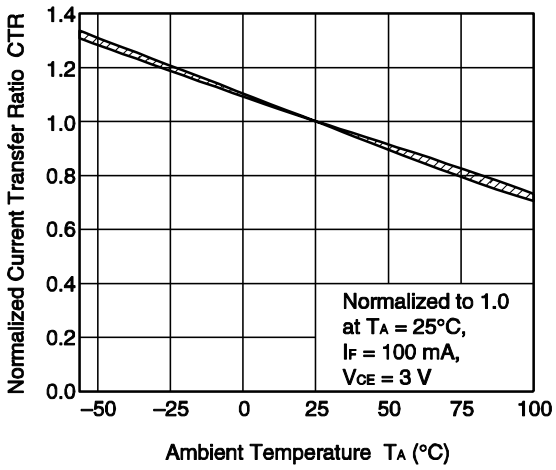
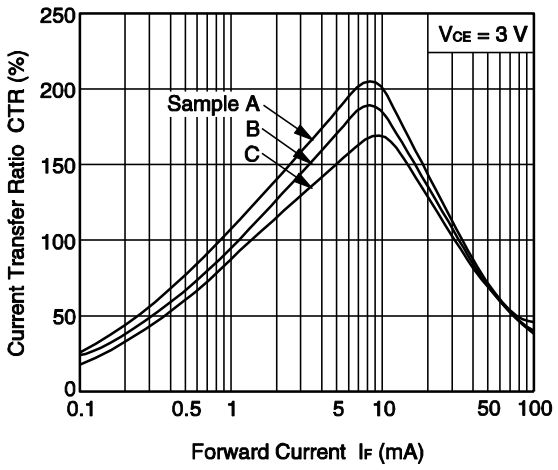
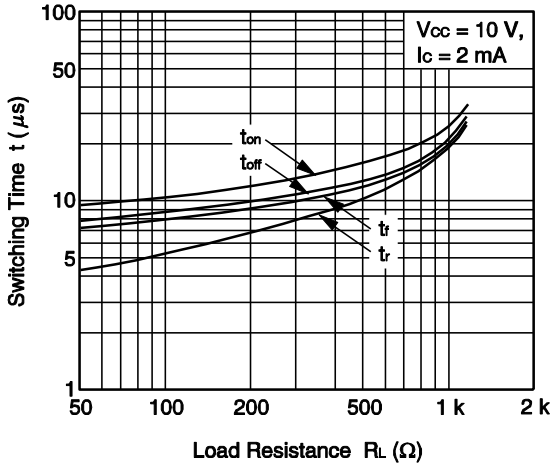
NORMALIZED CURRENT TRANSFER RATIO vs. AMBIENT TEMPERATURE



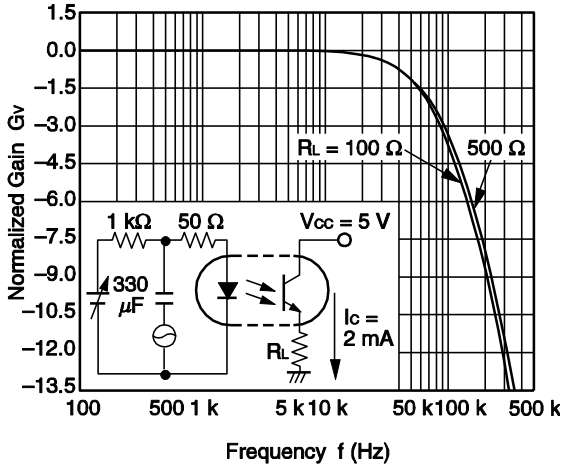
CURRENT TRANSFER RATIO vs. FORWARD CURRENT



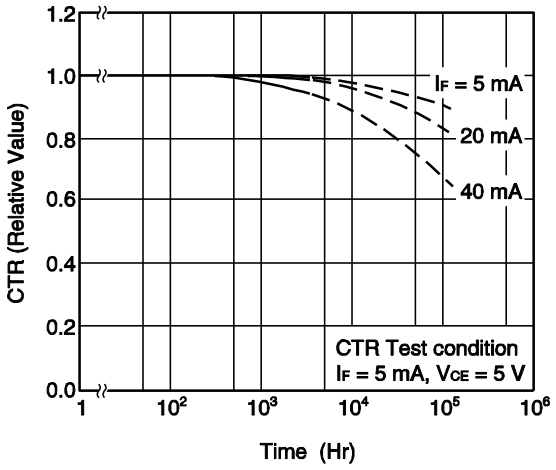
SWITCHING TIME vs. LOAD RESISTANCE



FREQUENCY RESPONSE



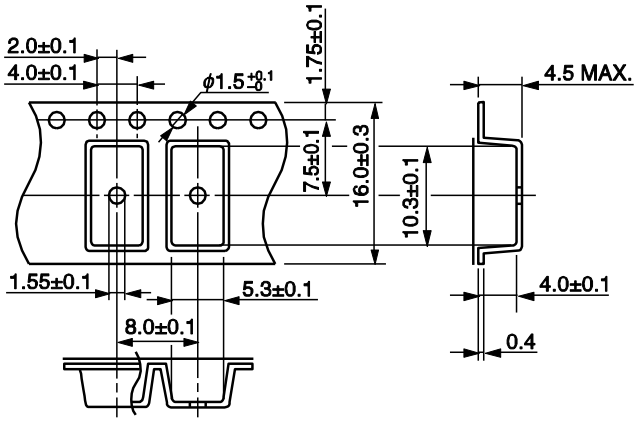
LONG TERM CTR DEGRADATION



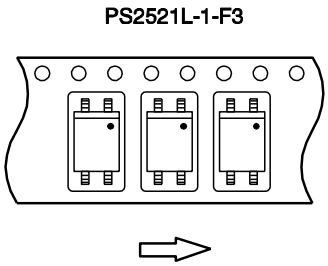
Remark The graphs indicate nominal characteristics.

<R> TAPING SPECIFICATIONS (Unit : mm)

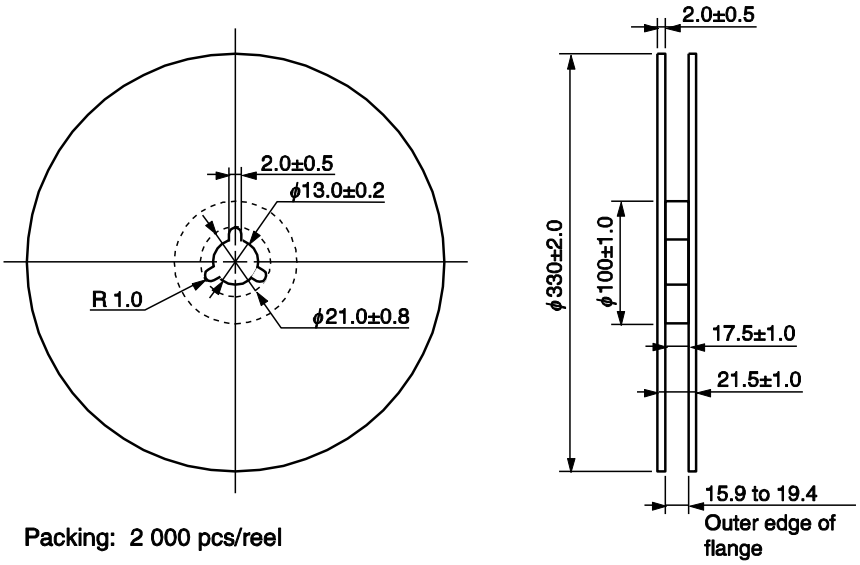
Outline and Dimensions (Tape)



Tape Direction



Outline and Dimensions (Reel)



Packing: 2 000 pcs/reel

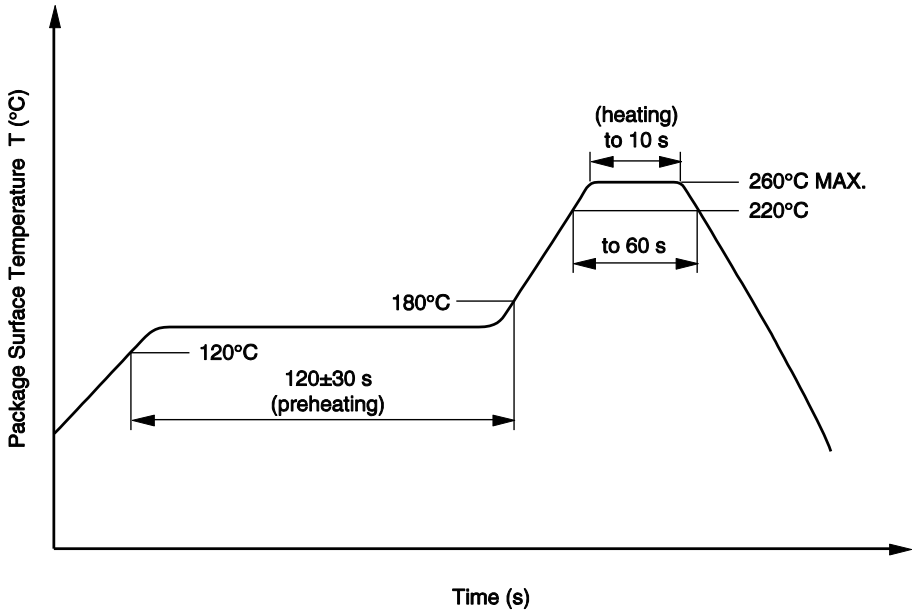
NOTES ON HANDLING

1. Recommended soldering conditions

(1) Infrared reflow soldering

‡Peak reflow temperature	260°C or below (package surface temperature)
‡Time of peak reflow temperature	10 seconds or less
‡Time of temperature higher than 220°C	60 seconds or less
‡Time to preheat temperature from 120 to 180°C	120±30 s
‡Number of reflows	Three
‡Flux	Rosin flux containing small amount of chlorine (The flux with a maximum chlorine content of 0.2 Wt% is recommended.)

Recommended Temperature Profile of Infrared Reflow



(2) Wave soldering

‡Temperature	260°C or below (molten solder temperature)
‡Time	10 seconds or less
‡Preheating conditions	120°C or below (package surface temperature)
‡Number of times	One (Allowed to be dipped in solder including plastic mold portion.)
‡Flux	Rosin flux containing small amount of chlorine (The flux with a maximum chlorine content of 0.2 Wt% is recommended.)

(3) Soldering by soldering iron

‡Peak temperature (lead part temperature)	350°C or below
‡Time (each pins)	3 seconds or less
‡Flux	Rosin flux containing small amount of chlorine (The flux with a maximum chlorine content of 0.2 Wt% is recommended.)

(a) Soldering of leads should be made at the point 1.5 to 2.0 mm from the root of the lead.

(b) Please be sure that the temperature of the package would not be heated over 100°C.

(4) Cautions

‡Fluxes

Avoid removing the residual flux with freon-based and chlorine-based cleaning solvent.

2. Cautions regarding noise

%H DZDUH WKDW ZKHQ YROWDJH LV DSSOLHG VXGGHQO\ EHWZHHQ WKH collector-emitters at startup, the output transistor may enter the on state, even if the voltage is within the absolute maximum ratings.

3. Measurement conditions of current transfer ratios (CTR), which differ according to photocoupler

Check the setting values before use, since the forward current conditions at CTR measurement differ according to product.

When using products other than at the specified forward current, the characteristics curves may differ from the standard curves due to CTR value variations or the like. Therefore, check the characteristics under the actual operating conditions and thoroughly take variations or the like into consideration before use.

USAGE CAUTIONS

1. Protect against static electricity when handling.
2. Avoid storage at a high temperature and high humidity.

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M8E0904E

Caution GaAs Products	This product uses gallium arsenide (GaAs). GaAs vapor and powder are hazardous to human health if inhaled or ingested, so please observe the following points. ‡)ROORZ UHODWHG ODZV DQG RUGLQDQFHV ZKHQ GLVSRV and/or ordinances, dispose of the product as recommended below. 1. Commission a disposal company able to (with a license to) collect, transport and dispose of materials that contain arsenic and other such industrial waste materials. 2. Exclude the product from general industrial waste and household garbage, and ensure that the product is controlled (as industrial waste subject to special control) up until final disposal. ‡ 'R QRW EXUQ GHVWUR\ FXW FUXVK RU FKHPLFDOO\ GL ‡ 'R QRW OLFN WKH SURGXFW RU LQVHUW LW LQWR WKH PRXWK