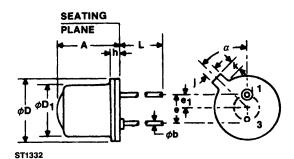


1N6264

## **PACKAGE DIMENSIONS**



SYMBOL	INCHES		MILLIM	NOTES	
STINIBOL	MIN.	MAX.	MIN.	MAX.	110120
Α		.255		6.47	
®b	.016	.021	.407	.533	
®D	.209	.230	5.31	5.84	
®D,	.180	188	4.57	4.77	
е	.100 NOM.		2.54 NOM.		2_
e,	.050 NOM.		1.27 NOM.		2
h		.030		.76	
l i	.031	.044	.79	1.11	Ī.,
k	.036	.046	.92	1.16	1
L	1.00		25.4		

## **DESCRIPTION**

The 1N6264 is a 940nm LED in a narrow angle, T0-46 package.

## **FEATURES**

- Good optical to mechanical alignment
- Mechanically and wavelength matched to TO-18 series phototransistor
- Hermetically sealed package
- High irradiance level
- (\*) indicates JEDEC registered values

# **PACKAGE OUTLINE**

α 45° 45° 45° 45°

CATHODE ANODE (CONNECTED TO CASE) ST1604

#### NOTES:

- NOTES:

  1. MEASURED FROM MAXIMUM DIAMETER OF DEVICE.

  2. LEADS HAVING MAX. DIAMETER .021" (.533mm)

  MEASURED IN GAUGING PLANE .054" + .001" .000

  (137 + 025 000mm) BELOW THE REFERENCE

  PLANE OF THE DEVICE SHALL BE WITHIN .007"

  (.778mm) THEIR TRUE POSITION RELATIVE TO A MAXIMUM WIDTH TAB.
- 3. FROM CENTERLINE TAB.



Storage Temperature	65°C to +150°C65°C to +125°C
Soldering:  *Lead Temperature (Iron)	
Continuous Forward Current Forward Current (pw, $1\mu$ S; 200 Hz) Reverse Voltage Power Dissipation ( $T_A = 25^{\circ}$ C) Power Dissipation ( $T_C = 25^{\circ}$ C)	

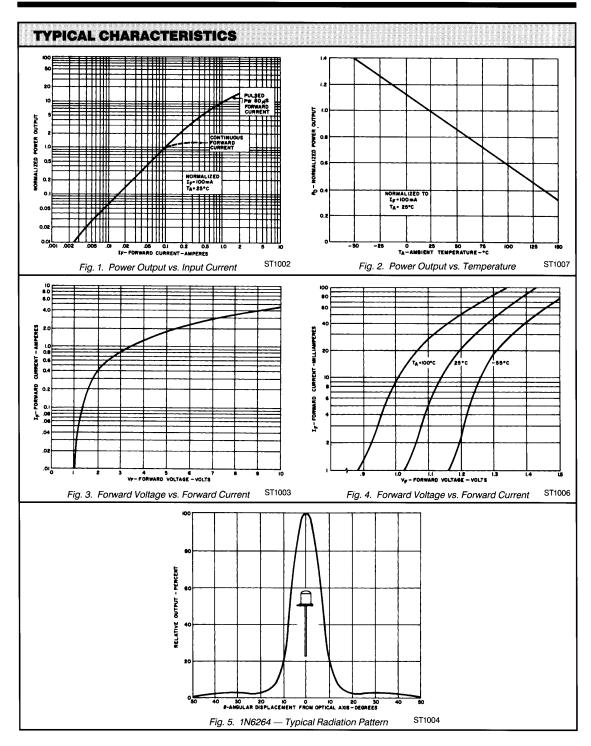
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
*Forward Voltage	V <sub>F</sub>			1.7	٧	$I_F = 100 \text{ mA}$
*Reverse Leakage Current	l <sub>R</sub>			10	μΑ	V <sub>R</sub> = 3 V
*Peak Emission Wavelength	$\lambda_{p}$	935		955	nm	$I_F = 100 \text{ mA}$
Emission Angle at ½ Power	Θ		±8		Degrees	
*Total Power	Po	6		_	mW	$I_F = 100 \text{ mA}^{(7)}$
Rise Time 0-90% of output	t,		1.0		μS	
Fall Time 100-10% of output	t,		1.0		μS	

# NOTES

- Derate power dissipation linearly 1.70 mW/°C above 25°C ambient.
   Derate power dissipation linearly 13.0 mW/°C above 25°C case.
- 3. RMA flux is recommended.
- 4. Methanol or Isopranol alcohols are recommended as cleaning agents.
- 5. Soldering iron tip 1/16" (1.6 mm) minimum from housing.
- 6. As long as leads are not under any stress or spring tension.

  7. Total power output, Po, is the total power radiated by the device into a solid angle of  $2\pi$  steradians.







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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.