

NEC

NEC Electronics Inc.

72C 09165 D

T-41-21

SG205D/T
GREEN
GaP LEDs
NEPOC SERIES
Description

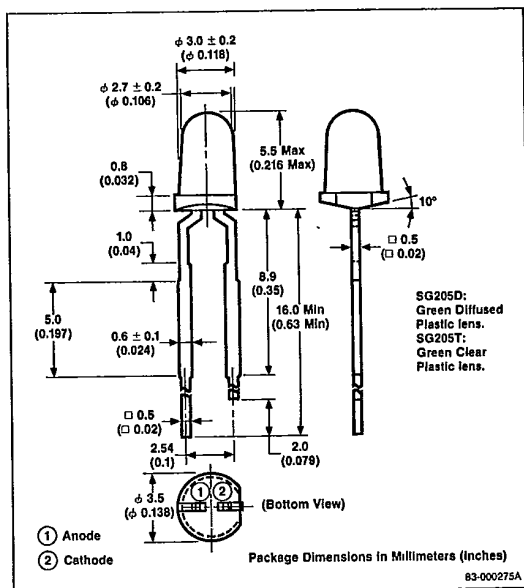
The SG205D and SG205T are GaP (Gallium Phosphide) light emitting diodes which are mounted on lead frames and molded in diffused green and clear green plastic, respectively. They are ideally suited for front panel indicator applications.

Features

- ☐ Long life—solid state reliability
- ☐ Low cost
- ☐ High intensity with low current
- ☐ Versatile mounting on PC board or panel
- ☐ Compatible with integrated circuits
- ☐ Fast switching time

Applications

- ☐ Visual displays
- ☐ Guard systems
- ☐ Radio or stereo equipment indicators
- ☐ Measuring instruments, terminals

Package Dimensions**Absolute Maximum Ratings** $T_A = +25^\circ\text{C}$

Power Dissipation, P_D	100mW
Forward Current, I_F	40mA
Reverse Voltage, V_R	5V
Junction Temperature, T_J	+80°C
Storage Temperature, T_{STG}	-30°C to +80°C

Electro-Optical Characteristics $T_A = +25^\circ\text{C}$

Parameters	Symbol	Limits			Unit	Test Conditions
		Min	Typ	Max		
Forward Voltage	V_F		2.5		V	$I_F = 10\text{mA}$
Reverse Current	I_R	0.01	50		μA	$V_R = 4.5\text{V}$
Capacitance	C_T	60			pF	$V = 0$, $f = 1.0\text{MHz}$
Peak Emission Wavelength	λ_{PEAK}	565			nm	$I_F = 10\text{mA}$
Spectral Line Half Width	$\Delta\lambda$	30			nm	$I_F = 10\text{mA}$
Luminous Intensity	I_{V1}/I_{V2}	1/2	3/5		mcd	$I_F = 10\text{mA}$

Notes: 1. I_{V1}/I_{V2} : Luminous intensity of SG205D/luminous intensity of SG205T.

SG205D/T

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Typical Characteristics

 $T_A = +25^\circ\text{C}$ 