# LNJ717W83RAS

# Surface Mounting Chip LED

TSS Tri-Color Type

### ■ Absolute Maximum Ratings $T_a = 25$ °C

#### • Rhi

Parameter	Symbol	Rating	Unit	
Power dissipation	$P_{D}$	65	mW	
Forward current	$I_{\mathrm{F}}$	15	mA	
Pulse forward current *	$I_{FP}$	I <sub>FP</sub> 50		
Reverse direct current	$I_{RDC}$	I <sub>RDC</sub> 100		
Operating ambient temperature	T <sub>opr</sub>	-30 to +85	°C	
Storage temperature	T <sub>stg</sub>	-40 to +100	°C	

Note) \*: The condition of  $I_{FP}$  is duty 10%, Pulse width 1 msec.

#### • Pure Green

Parameter	Symbol	Rating	Unit	
Power dissipation	$P_{D}$	65	mW	
Forward current	$I_{\mathrm{F}}$	15	mA	
Pulse forward current *	$I_{FP}$	50	mA	
Reverse direct current	$I_{RDC}$	100	mA	
Operating ambient temperature	T <sub>opr</sub>	-30 to +85	°C	
Storage temperature	T <sub>stg</sub>	-40 to +100	°C	

Note) \*: The condition of  $I_{FP}$  is duty 10%, Pulse width 1 msec.

#### • Orange

Parameter	Symbol	Rating	Unit	
Power dissipation	$P_{\mathrm{D}}$	70	mW	
Forward current	$I_{\mathrm{F}}$	20	mA	
Pulse forward current *	$I_{FP}$	60	mA	
Reverse voltage	V <sub>R</sub>	$V_R$ 4		
Operating ambient temperature	T <sub>opr</sub>	-30 to +85	°C	
Storage temperature	T <sub>stg</sub>	-40 to +100	°C	

Note) \*: The condition of  $I_{FP}$  is duty 10%, Pulse width 1 msec.

### ■ Electro-Optical Characteristics $T_a = 25$ °C

#### • Blue

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity	I <sub>O</sub>		15	35	60	mcd
Forward current	$I_{\mathrm{F}}$			5		mA
Forward voltage	V <sub>F</sub>	$I_F = 5 \text{ mA}$		3.1	3.7	V
Peak emission wavelength	$\lambda_{\mathrm{P}}$	$I_F = 5 \text{ mA}$		470		nm
Spectral half band width	Δλ	$I_F = 5 \text{ mA}$		30		nm

### ■ Lighting Color / Lens Color

- Blue / White Diffused
- Pure Green / White Diffused
- Orange / White Diffused

# **Panasonic**

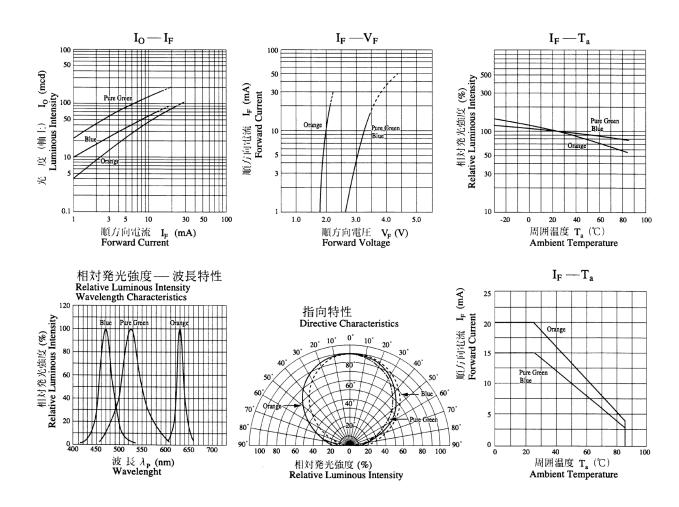
## ■ Electro-Optical Characteristics (Continued) $T_a = 25$ °C

#### • Pure Green

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity	I <sub>O</sub>		60	90	160	mcd
Forward current	$I_{\mathrm{F}}$			5		mA
Forward voltage	$V_{\rm F}$	$I_F = 5 \text{ mA}$		3.1	3.7	V
Peak emission wavelength	$\lambda_{\mathrm{P}}$	$I_F = 5 \text{ mA}$		525		nm
Spectral half band width	Δλ	$I_F = 5 \text{ mA}$		45		nm

#### Orange

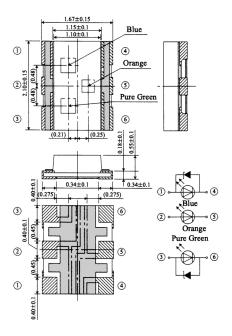
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity	I <sub>O</sub>		20	45	80	mcd
Forward current	$I_{\mathrm{F}}$			10		mA
Forward voltage	V <sub>F</sub>	$I_F = 10 \text{ mA}$		2.0	2.5	V
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 10 \text{ mA}$		630		nm
Spectral half band width	Δλ	$I_F = 10 \text{ mA}$		15		nm
Reverse current	$I_R$	$V_R = 4 V$			100	μΑ



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Panasonic LNJ717W83RAS

## ■ Package (Unit: mm)



- Pin name
  - 1, 2, 3: Anode
  - 4, 5, 6: Cathode

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