

591-xx01-1xx

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)

Parameter	-2x01	-3x01
Power Dissipation (derate linearly from 25°C at $1.3\text{ mW}/^\circ\text{C}$, except $1.2\text{ mW}/^\circ\text{C}$ for bi-color)	100 mW	90mW
Forward DC Current	30 mA	
Peak Forward Current (10 μsec)	500 mA	
Operating Temperature	-55°C to $+100^\circ\text{C}$	
Storage Temperature	-55°C to $+100^\circ\text{C}$	
Soldering Temperatures Convection IR Vapor Phase	235° Peak, above 185° for 90 sec., 215°C for 3 Min.	

Solder Adherance per MIL-STD-202E, Method 208C

Operating Characteristics ($T_A = 25^\circ\text{C}$)

Parameter	Part No.	Min	Typ	Max	Units	Test Cond.
Forward Voltage V_F	-2001		2	2.6	V	$I_F = 10\text{ mA}$
	-2101		1.75	2.6		
	-2301		2	2.6		
	-2401		2	2.6		
	-2501		2	2.6		
	-3001		2	2.6		
	-3101		2	2.6		
Reverse Voltage V_R	-2001	5			V	$I_R = 10\text{ }\mu\text{A}$
	-2101	3				
	-2301	5				
	-2401	5				
	-2501	5				
	-3001	5				
	-3101	5				
Dominant Wavelength λ_{Dom}	-2001		628		nm	
	-2101		645			
	-2301		570			
	-2401		590			
	-2501		605			
	-3001		628/570			
	-3101		590/570			
Luminous Intensity I_V	-2001		8		mcd	$I_F = 10\text{ mA}$
	-2101		24			
	-2301		8			
	-2401		8			
	-2501		8			
	-3001		6.5/8			
	-3101		8/8			$I_F = 20\text{ mA}$
Viewing Angle ($2\Theta_{1/2}$)	All		40		deg.	

NOTE: -3001 data Red/Green where applicable

-3101 data Yellow/Green where applicable

$\Theta_{1/2}$ is the off axis angle at which the luminous intensity is half the axial luminous intensity

Dialight