

Serie152 – 1206 bipolar monicolor

OLS-152 GC525/GC525

preliminary

Features

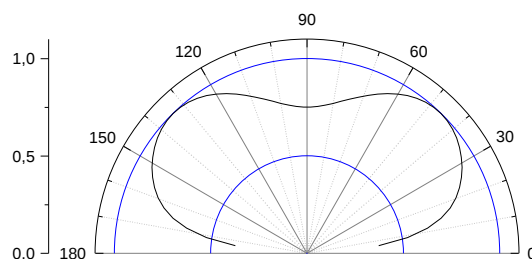
- size: 3,2(L) x 1,6(W) x 1,2(H) mm
- circuit substrate: glass laminated epoxy
- devices are ROHS conform
- lead free solderable, soldering pads: gold plated
- taped in 8 mm blister tape, cathode to transporting perforation
- all devices sorted into luminous intensity classes
- taping: face-up (T) or face-down (TD) possible
- high luminous intensity types
- on request sorted in color classes



Electro-Optical Characteristics

Measured at $I_F = 20\text{mA}$, $T_a = 25^\circ\text{C}$

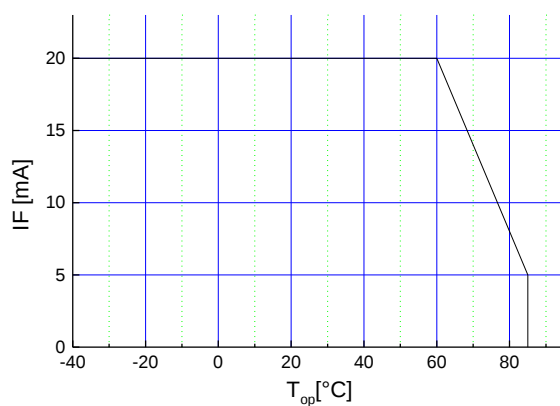
Parameter	Symbol	Values			Units
		min	typ	max	
Emitting Color		green			
Forward Voltage	V_F		3.3	3.6	V
Dominat Wavelength	λ_D		525		nm
Spectral Width	$\Delta\lambda$		30	60	nm
Luminous Intensity	I_V	280	400		mcd
Reverse Current	I_R			100	μA



view angle

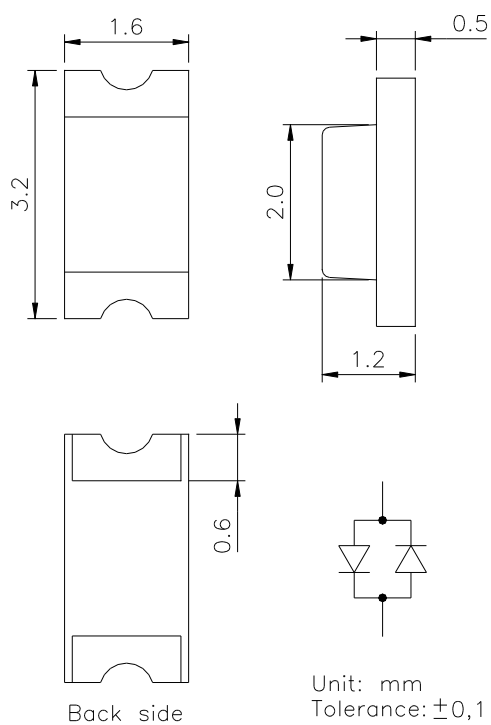
Absolute Maximum Ratings

Parameter	Symbol	Values		Units
		min	max	
Forward Current	$I_{F,max}$		20	mA
Forward Current, pulsed $t_p \leq 100\mu s, \tau = 1:10$	$I_{F,p}$		100	mA
Reverse Voltage	V_R		5	V
Thermal Resistance	$R_{th JA}$		450	K/W
Operating Temperature	T_{Op}	-40	+85	°C
Storage Temperature	T_{St}	-40	+100	°C

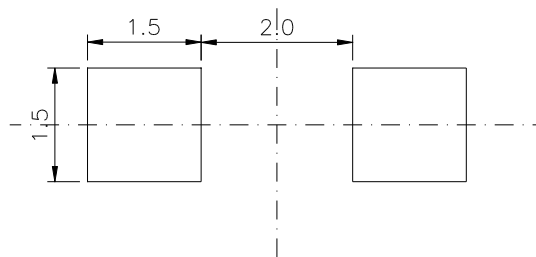


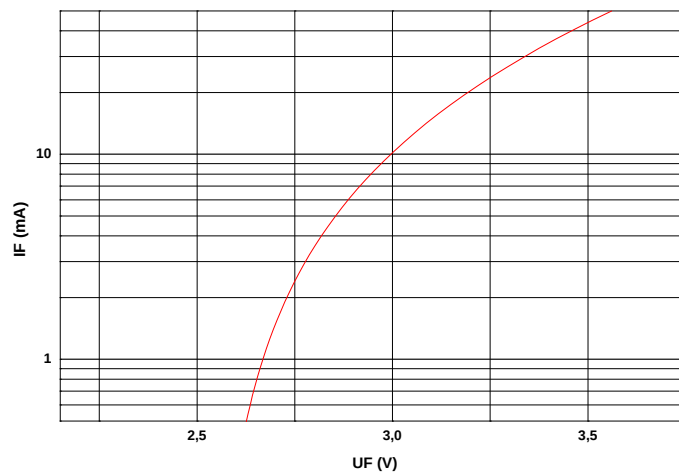
maximal forward
current (DC)
characteristic

Outline Drawing

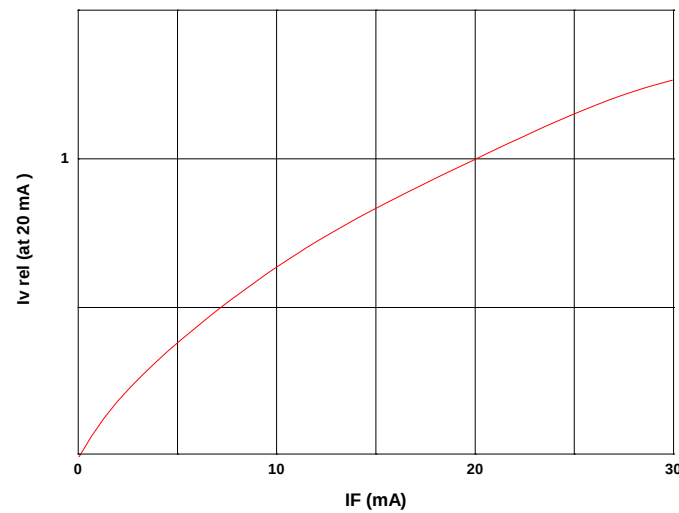


Recommended Soldering Patterns

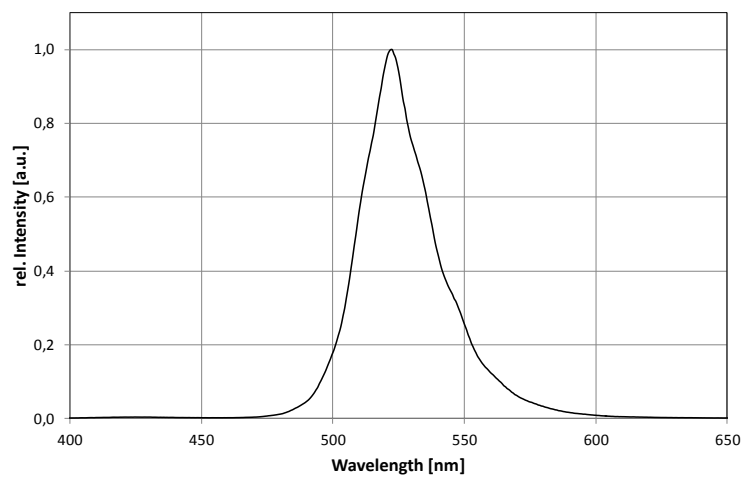




$U_F - I_F$
characteristic

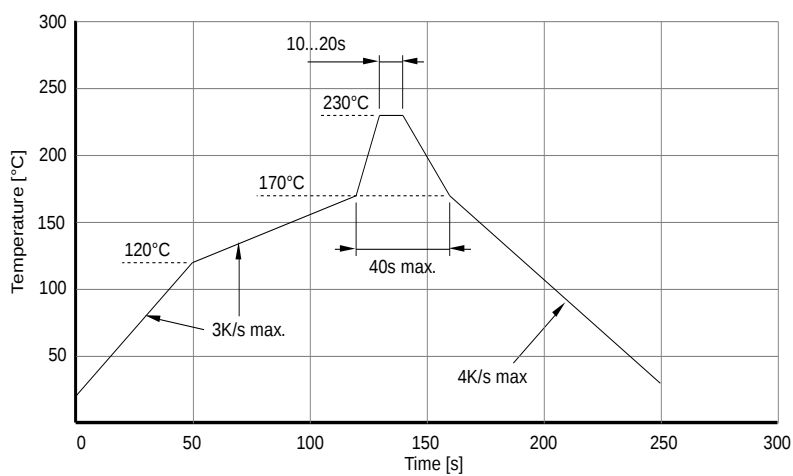


$I_F - I_{v, rel}$
characteristic

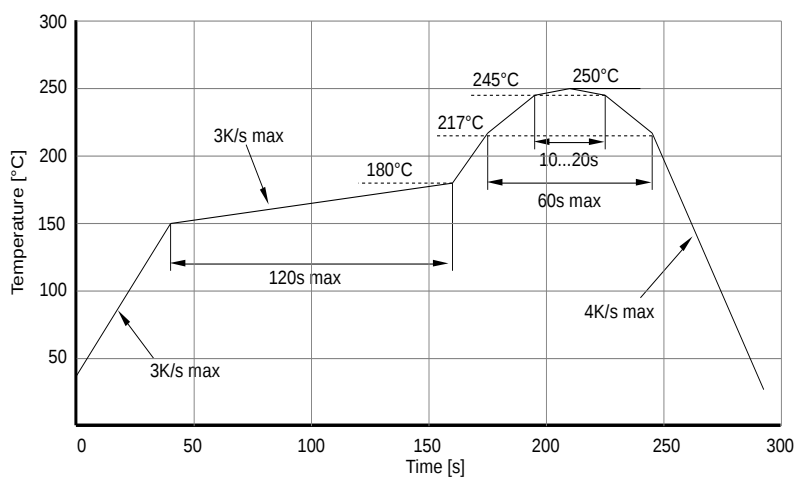


Spectrum
@ 20mA

Soldering Conditions



IR reflow
soldering profile



IR reflow
soldering profile
for lead free
soldering

Manual soldering: max power of iron 25W/ 3s/ 300°C

Ordering Code For Parts

Series	Color	Encapsulation	Packaging
OLS-152	???????	?	?
			T – taped up TD – taped down
		C – colored clear CD – colored diffused X – uncolored clear XD – uncolored diffused	

Type definition, e.g. OLS-152 GC525/GC525 –X-T

LED Radiant Intensity Groups And Subgroups [mcd]

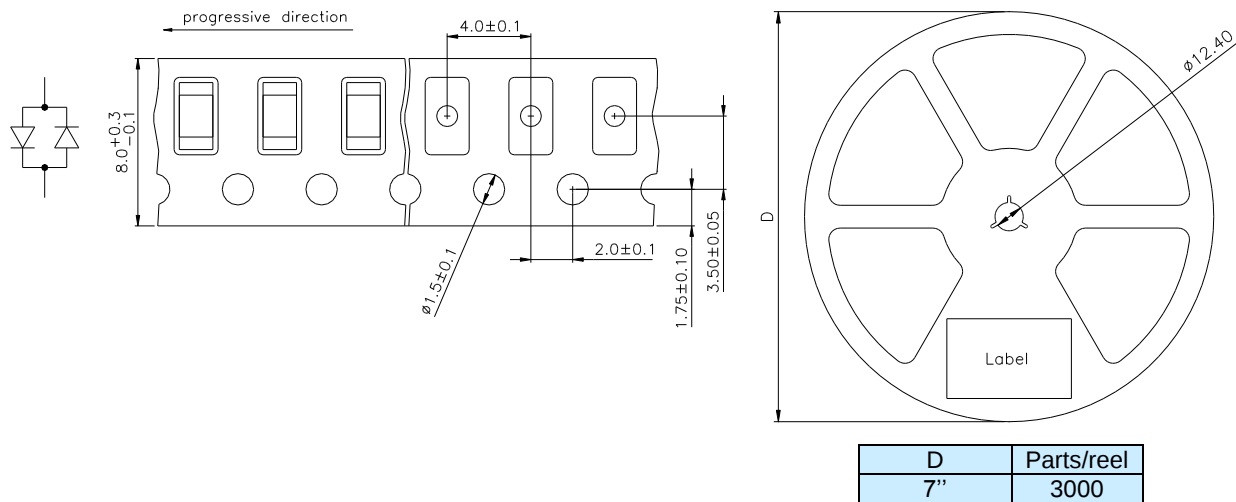
(general information – not this device specific)

N:	28	-	45	N1:	28.00	-	35.50
				N2:	35.50	-	45.00
P:	45	-	71	P1:	45.00	-	56.00
				P2:	56.00	-	71.00
Q:	71	-	112	Q1 :	71	-	90
				Q2 :	90	-	112
R:	112	-	180	R1 :	112	-	140
				R2 :	140	-	180
S:	180	-	280	S1 :	180	-	224
				S2 :	224	-	280
T:	280	-	450	T1 :	280	-	355
				T2 :	355	-	450
U:	450	-	710	U1 :	450	-	560
				U2 :	560	-	710
V:	710	-	1120	V1 :	710	-	900
				V2 :	900	-	1120
AW:	1120	-	1800	AA :	1120	-	1400
				AB :	1400	-	1800
BW:	1800	-	2800	BA :	1800	-	2240
				BB :	2240	-	2800
CW:	2800	-	4500	CA :	2800	-	3550
				CB :	3550	-	4500

Measured according to CIE 127. All SMD-LEDs are 100% measured and selected on full automated equipment with an accuracy of ± 11 %.

**Special service: Brightness selection in sub selections possible.
Color selection in 3 sub selections possible (each subgroup per reel).**

Tape And Reel Packing



Packing: The reel is sealed in special plastic bag with integrate ESD protection (MIL - STD 81705) including a silica dry-pack
MSL level acc. to IPC/JEDEC J-STD 020D:
Level 2 for Europe
Level 2a for all other countries

Label

Order No. XXXXXXXXXX

Customer order No.

Type ?????-??-T

Intensity group ZZ Color class: CC

Color class - optional

Charge No. 1122-AAAAAA

11 Week – 22 year – A internal identification

Quantity 9999

Attention please:

The information describes the type of component and shall not considered as assured characteristics. Terms of delivery and rights to change reserved. Due to technical requirements components may contain dangerous substances. The data sheet may changed without prior information; the valid issue will be on our webpage in internet. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. OSA opto light does not have the responsibility for the reliability and the degradation behaviour of products made with OSA opto light diodes because they depend not only on the diode but also on the conditions of manufacture or design of the final products.

Packaging: Please use the recycling operators known to you.

Components used in life support devices or systems, toys and safety systems must be expressly authorized for such purpose!