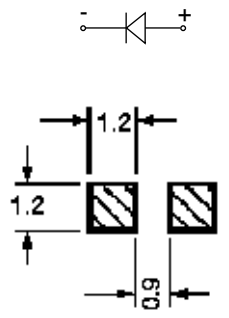
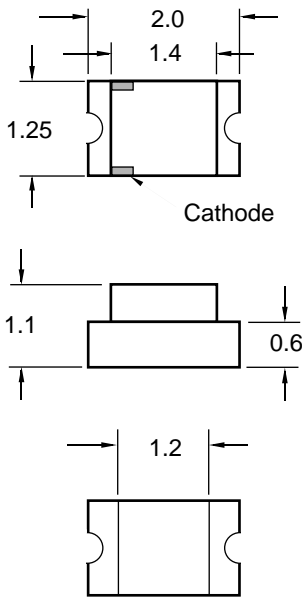


Surface Mount LED, 0178 Series "0805" Package



The 0178 series lamps are miniature chip type designed for surface mounting. These lamps are of the so-called 0805 size, measuring approximately 1.5 x 2.0 mm. These lamps are available in EIA481 tape and reel packaging with approximately 2000 pcs per reel.



Suggested pad dimensions for reflow soldering



GENERAL INFORMATION

Operating Temperature Range	-40 °C to +85 °C
Storage Temperature Range	-40 °C to +90 °C
Reflow Soldering Temperature	260 °C for 5 sec max

APPLICATION INFORMATION (ALL RATINGS AT 25 °C AMBIENT)

Part No.	Emitted Color	Peak	$\Delta\lambda$	Absolute Maximum Ratings					E/O Characteristics					
		λ		Pd	If (mA)		Ir	Vr	Vf (V) @ If=20mA			Iv (mcd) @ If=20mA		$2\Theta_{1/2}$
		(nm)			(mW)	dc			1/10 duty @ 1 kHz	@ Vr=5V (μ A)	Min	Typ	Max	
ISRC0178	Red	660	20	100	30	200	100	5	-	1.7	2.4	11	19	140
IVRC0178	Red	640	45	70	25	90	100	5	-	2.0	2.8	5	9	140
IVYC0178	Yellow	585	35	70	20	90	100	5	-	2.0	2.8	5	9	140
IVGC0178	Green	570	30	70	25	90	100	5	-	2.1	2.8	7	13	140
IURC0178*	Red	660	20	100	30	200	100	5	-	1.7	2.4	18	32	140
IUGC0178	Green	570	30	70	30	160	100	5	-	2.1	2.8	9	18	140
IUYC0178	Yellow	590	15	70	30	160	100	5	-	2.1	2.8	44	76	140
IUOC0178	Orange	620	18	70	50	160	100	5	-	2.1	2.8	26	43	140
IVRD0178	Red	640	45	70	25	90	100	5	-	2.0	2.8	3	6	160
IVYD0178	Yellow	585	35	70	20	90	100	5	-	2.0	2.8	4	8	160
IVGD0178	Green	570	30	70	25	90	100	5	-	2.1	2.8	3	7	160
IUBC0178	Blue	428	65	140	30	70	50	5	-	3.8	4.5	16	20	140
IUBC0178-7	Blue	468	26	140	30	70	50	5	-	3.5	4.0	21	26	140

Specifications subject to change without notice. Dimensions are in mm±0.3 unless stated otherwise. *reversed polarity
IDEA, Inc., 1351 Titan Way, Brea, CA 92821 Ph:714-525-3302, 800-LED-IDEA; Fax: 714-525-3304 0508