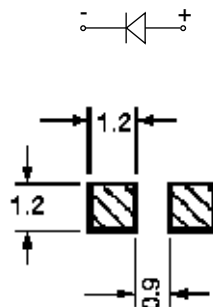
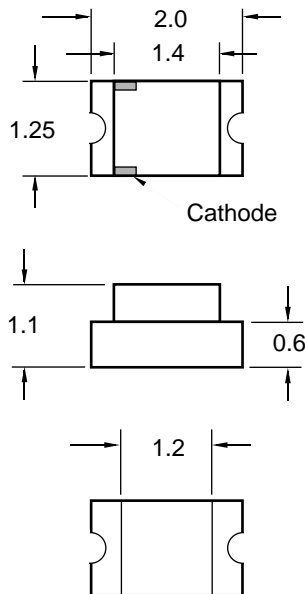


Surface Mount LED, 0178 Series "0805" Package



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.



RoHS Compliant
Aug 2004

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

0502-0178