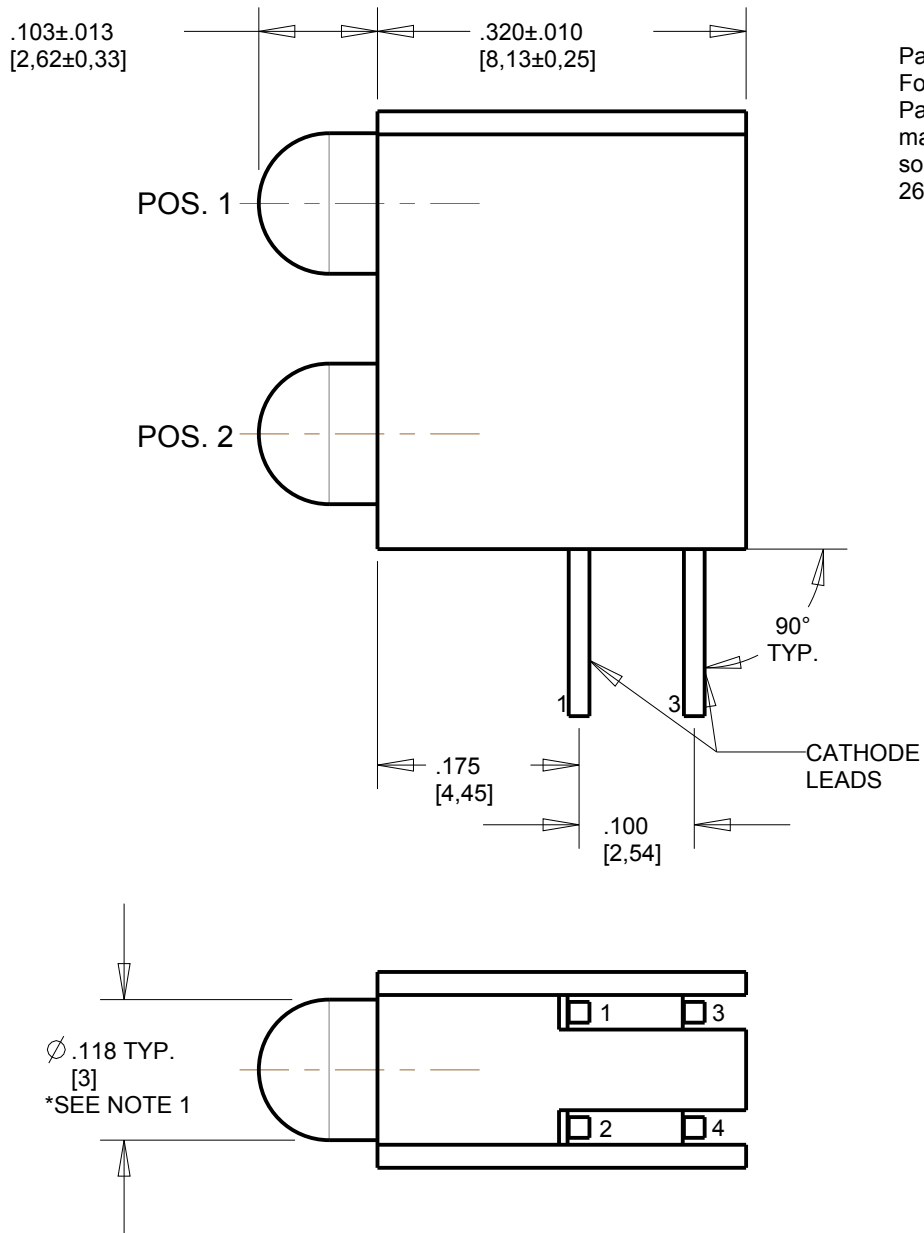


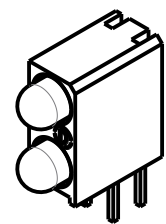
ASSY. NO. (CAT. NO.)	LED COLOR	
	POSITION 1	POSITION 2
553-0101F	BLANK	RED
553-0102F	BLANK	GREEN
553-0103F	BLANK	YELLOW
553-0107F	BLANK	ORANGE
553-0108F	BLANK	BLUE
553-0110F	RED	BLANK
553-0111F	RED	RED
553-0112F	RED	GREEN
553-0113F	RED	YELLOW
553-0118F	RED	BLUE
553-0120F	GREEN	BLANK
553-0121F	GREEN	RED
553-0122F	GREEN	GREEN
553-0123F	GREEN	YELLOW
553-0127F	GREEN	ORANGE
553-0128F	GREEN	BLUE
553-0130F	YELLOW	BLANK
553-0131F	YELLOW	RED
553-0132F	YELLOW	GREEN
553-0133F	YELLOW	YELLOW
553-0171F	ORANGE	RED
553-0172F	ORANGE	GREEN
553-0173F	ORANGE	YELLOW
553-0177F	ORANGE	ORANGE
553-0181F	BLUE	RED
553-0182F	BLUE	GREEN
553-0188F	BLUE	BLUE
553-0199F	WHITE	WHITE
553-0201F	BLANK	RED
553-0202F	BLANK	GREEN
553-0203F	BLANK	YELLOW
553-0210F	RED	BLANK
553-0211F	RED	RED
553-0212F	RED	GREEN
553-0213F	RED	YELLOW
553-0220F	GREEN	BLANK
553-0221F	GREEN	RED
553-0222F	GREEN	GREEN
553-0223F	GREEN	YELLOW
553-0230F	YELLOW	BLANK
553-0231F	YELLOW	RED
553-0232F	YELLOW	GREEN
553-0233F	YELLOW	YELLOW
553-0301F	BLANK	RED
553-0302F	BLANK	GREEN
553-0303F	BLANK	YELLOW
553-0310F	RED	BLANK
553-0311F	RED	RED
553-0312F	RED	GREEN
553-0313F	RED	YELLOW
553-0320F	GREEN	BLANK
553-0321F	GREEN	RED
553-0322F	GREEN	GREEN
553-0323F	GREEN	YELLOW
553-0331F	YELLOW	RED
553-0332F	YELLOW	GREEN
553-0333F	YELLOW	YELLOW



RoHS COMPLIANT 553-0XXXF

Part Numbers with the "F" suffix ending are RoHS Compliant.
For example: 553-0101F
Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

BIN	LIMITS (WHITE LED) (CHROMATICITY COORDINATES)				
A3	X	0.270	0.270	0.250	0.250
	Y	0.275	0.325	0.300	0.250
A4	X	0.270	0.250	0.250	0.270
	Y	0.275	0.250	0.200	0.225
B3	X	0.290	0.290	0.270	0.270
	Y	0.300	0.350	0.325	0.275
B4	X	0.290	0.270	0.270	0.290
	Y	0.300	0.275	0.225	0.250
C3	X	0.310	0.310	0.290	0.290
	Y	0.325	0.375	0.350	0.300
C4	X	0.310	0.290	0.290	0.310
	Y	0.325	0.300	0.250	0.275
D3	X	0.330	0.330	0.310	0.310
	Y	0.350	0.400	0.375	0.325
D4	X	0.330	0.310	0.310	0.330
	Y	0.350	0.325	0.275	0.300



SCALE 2.000



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

NOTES:

- (FOR ORANGE: LEADS .018 SQ. NOM.), LED BODY Ø .115±.010 AND THE PC BOARD TOLERANCE ON LEAD THICKNESS TO BE ±.003.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 553-0XXXF.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

553-01XXF						
OPERATING CHARACTERISTICS AT 25° C AMBIENT: 10 mA LEDs						
LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	2.5	8.7	18	mcd	$I_F = 10 \text{ mA}$
	YELLOW	1.7	5.6	—		
	GREEN	5.6	12.6	29		$I_F = 2 \text{ mA}$
	BLUE	11	16	23		$I_F = 10 \text{ mA}$
	ORANGE	3.4	7.0	10.8		$I_F = 10 \text{ mA}$
	WHITE	400	1100	1900		$I_F = 20 \text{ mA}$
PEAK WAVELENGTH	RED		635		nm	
	YELLOW		588			
	GREEN		565			
	BLUE		468			
	ORANGE		600			
	WHITE					
DOMINANT WAVELENGTH	RED	615	625	632	nm	$I_F = 10 \text{ mA}$
	YELLOW	585	590	595		
	GREEN	564	568	573		
	BLUE	460	467	475		
	ORANGE	597	602	616		
	WHITE					
FORWARD VOLTAGE	RED		2.0	2.6	V	$I_F = 10 \text{ mA}$
	YELLOW		2.1	2.6		
	GREEN		2.1	2.6		$I_F = 20 \text{ mA}$
	BLUE	2.0	2.7	4.1		
	ORANGE	1.5	1.9	3.5		
	WHITE		3.5	4.0		
REVERSE CURRENT	RED			100	μA	$V_R = 5\text{V}$
	YELLOW			100		
	GREEN			100		
	BLUE			10		
	ORANGE			100		
	WHITE			100		
VIEWING ANGLE	RED		60		DEGREE	
	YELLOW		60			
	GREEN		60			
	BLUE		100			
	ORANGE		60			
	WHITE		45			

553-03XXF						
OPERATING CHARACTERISTICS AT 25° C AMBIENT: 5 V INTEGRAL RESISTOR LEDs						
LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	8.7	29.0		mcd	$V_F = 5\text{V}$
	YELLOW	3.7	12.6			
	GREEN	5.6	19.0			
PEAK WAVELENGTH	RED		635		nm	
	YELLOW		585			
	GREEN		565			
FORWARD CURRENT	RED		10	20	mA	$V_F = 5\text{V}$
	YELLOW		10	20		
	GREEN		10	20		
REVERSE CURRENT	RED			100	μA	$V_R = 5\text{V}$
	YELLOW			100		
	GREEN			100		
VIEWING ANGLE	ALL		60		DEGREE	

553-03XXF				
ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT			COLOR	
5 V INTEGRAL RESISTOR LEDs			RED	GREEN YELLOW
CONTINUOUS FORWARD VOLTAGE			7.5	V
REVERSE VOLTAGE			5	V
LINEAR DERATING FROM 50° C			0.071	V/°C
LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC.			260	°C
OPERATING TEMPERATURE			-40 TO +85	°C
STORAGE TEMPERATURE			-55 TO +100	°C

553-02XXF						
OPERATING CHARACTERISTICS AT 25° C AMBIENT: 2 mA LOW CURRENT LEDs						
LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	0.75	2.5		mcd	$I_F = 2 \text{ mA}$
	YELLOW	0.4	4.5			
	GREEN	0.4	1.1			
PEAK WAVELENGTH	RED		635		nm	
	YELLOW		585			
	GREEN		565			
FORWARD VOLTAGE	RED	1.7	2.2		V	$I_F = 2 \text{ mA}$
	YELLOW	1.8	2.2			
	GREEN	1.9	2.2			
REVERSE CURRENT	ALL			10	μA	$V_R = 5\text{V}$
VIEWING ANGLE	ALL		60		DEGREE	

553-02XXF			
ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT: 2 mA LOW CURRENT LEDs		COLOR	
		RED	GREEN YELLOW
POWER DISSIPATION	20	mW	
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH)	500	mA	
CONTINUOUS FORWARD CURRENT	7	mA	
LINEAR DERATING FROM 95° C	0.7	mA/°C	
REVERSE VOLTAGE	5	V	
LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC.	260	°C	
OPERATING TEMPERATURE	-55 TO +100	°C	
STORAGE TEMPERATURE	-55 TO +100	°C	

553-01XXF						
ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT			COLOR			
			RED	YELLOW GREEN	BLUE	ORANGE WHITE UNITS
POWER DISSIPATION	100	60	120	120	135	120 mW
PEAK FORWARD CURRENT (1/5 DUTY CYCLE, 1 ms PULSE WIDTH) (1/10, .1ms FOR BLUE) (t< 10 μs D= .005 FOR ORANGE)	90	60	90	100	500	100 mA
CONTINUOUS FORWARD CURRENT	30	20	30	30	30	30 mA
LINEAR DERATING FROM 50° C (30° C FOR BLUE, 30° C FOR WHITE)	0.40	0.25	0.40	.5	0.50	.45 mA/°C
REVERSE VOLTAGE				5		V
LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC.				260		°C
OPERATING TEMPERATURE	-55 TO +100		-40 TO +85	-55 TO +100	-40 TO +85	°C
STORAGE TEMPERATURE	-55 TO +100		-55 TO +100	-55 TO +100	-40 TO +100	°C

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SCALE: 6.000	DRAWING NUMBER	REV
ALL DIMS IN: INCHES (MM)	C-17277	K
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ± 1/64	3mm LED BI-LEVEL CBI	
DECIMALS (.XX): ± .02	RoHS COMPLIANT	
DECIMALS (.XXX): ± .015	MATERIAL	
ANGLES: ± 3°		
FINISH		
FSCM 83330	SHEET 1 OF 1	FAMILY TABLES:

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