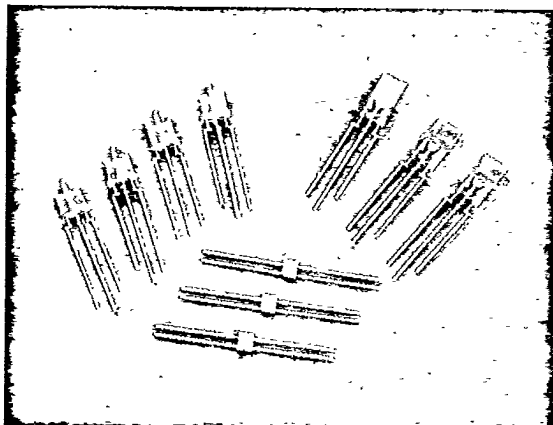




LED Lamps

DUAL COLOR

T-41-25



FEATURES

- Dual color indicator
- Two color combinations
Red/Green
Yellow/Green
- Various shapes and sizes
- Low drive current
- Wide viewing angle

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Dual Color Series - Assorted Styles

Size	Part Number	Color Led	Lens	Lens Description	Axial Luminous Intensity (mcd)				Test Condition (I _F -mA)	Viewing Angle 2θ½ (deg)
					Red/Yellow		Green			
					Min.	Typ.	Min.	Typ.		
04	AND101RG	Red/Green	Milky	Diffused	0.5	.75	0.5	1.5	20	180
T1	AND126SG	Red/Green	Milky	Diffused	2.5	5	2.25	4.5	10	
T1¼	AND116SG	Red/Green	Milky	Diffused	1.5	7	1.5	5	15	80
	AND116YG	Yellow/Green	Milky	Diffused	1.5	5	1.5	5	15	80
2 Lead	AND171SG	Red/Green	Milky	Diffused	1.2	6.0	2.5	12.0	20	
T1¼	AND177RAG	Red/Green	Colorless	Clear	480	1200	80	170	20	22
T1¼	AND182SG	Red/Green	Milky	Diffused	5	15	2.5	12	20	
T1¼	AND187RAG	Red/Green	Colorless	Clear		900		150	20	48
1 x 5	AND205SG	Red/Green	Milky	Diffused	0.5	1.5	0.5	1.5	15	
2 Lead	AND2451RGL	Red/Green	Milky	Diffused	0.7	1.2	1.0	1.7	10	80
2 x 5	AND208SG	Red/Green	Milky	Diffused	0.5	1.5	0.5	1.5	15	
	AND208YG	Yellow/Green	LT-Yellow	Diffused	0.5	1.5	0.5	1.5	15	
2.2 x 2.9	AND222SG	Red/Green	Clear	Clear		6		9	15	100
Flat Top	AND264SG	Red/Green	Milky	Diffused	1.5	5	1.5	5	15	

Absolute Maximum Ratings (T_A = 25°C)

Characteristics	Symbol	Rating			Unit
		Red	Green	Yellow	
Forward Current (DC)					
AND101, 116, 126, 171, 177, 187	I _F	25	25	25	mA
AND182, 205, 208, 222, 264	I _F	25	25	25	mA
AND2451	I _F	20	20		mA
Reverse Voltage					
AND101, 116, 126, 171, 177, 187	V _R	4	4	4	V
AND182, 205, 208, 222, 264	V _R	4	4	4	V
AND2451	V _R	5	5		V
Power Dissipation					
AND101, 116, 126, 171, 177, 187	P _D	75	75	75	mW
AND182, 205, 208, 222, 264	P _D	75	75	75	mW
AND2451	P _D	70	70		mW
Operating Temperature Range	T _{OPR}	-20 to +75			°C
Storage Temperature Range	T _{STC}	-30 to +100			°C



LED Lamps

DUAL COLOR

T-41-25

Electro-Optical Characteristics ($T_A = 25^\circ\text{C}$)

Electro-Optical Characteristics (I _A = 25 mA)												
Characteristics	Symbol	Test Condition	Red			Green			Yellow			Units
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward Voltage												
AND116, 126, 171, 182	V _F	I _F = 20mA		2.1	2.8		2.1	2.8		2.1	2.8	V
AND205, 208, 222, 264	V _F	I _F = 20mA		2.1	2.8		2.1	2.8		2.1	2.8	V
AND177, 187	V _F	I _F = 20mA		1.8	2.4		2.1	2.8				V
AND2451	V _F	I _F = 20mA		2.1	3		2.1	3				V
AND101	V _F	I _F = 20mA		2.1	2.6		2.1	2.6				V
Reverse Current												
AND116, 126, 171, 182	I _R	V _R = 4V			100			5			100	μA
AND205, 208, 222, 264	I _R	V _R = 4V			100			5			100	μA
AND177, 187	I _R	V _R = 4V			100			5				μA
AND2451	I _R	V _R = 5V			100			5				μA
AND101	I _R	V _R = 5V			100			5				μA
Wavelength												
AND116, 126, 171, 182	λ _P	I _F = 15mA		635			565			585		nm
AND205, 208, 222, 264	λ _P	I _F = 15mA		635			565			585		nm
AND177, 187	λ _P	I _F = 20mA		660			567					nm
AND2451	λ _P	I _F = 20mA		700			567					nm
AND101	λ _P	I _F = 20mA		700			565					nm
Spectral Line Half Width												
AND116, 126, 171, 182	Δλ	I _F = 15mA		40			25			32		nm
AND205, 208, 222, 264	Δλ	I _F = 15mA		40			25			32		nm
AND177, 187	Δλ	I _F = 20mA		30			25					nm
AND101, 2451	Δλ	I _F = 20mA		100			25					nm



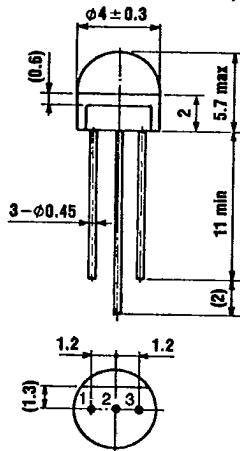
LED Lamps

DUAL COLOR

T-41-25

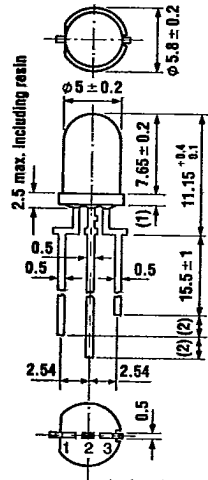
Outline Dimension (in millimeters)

AND101



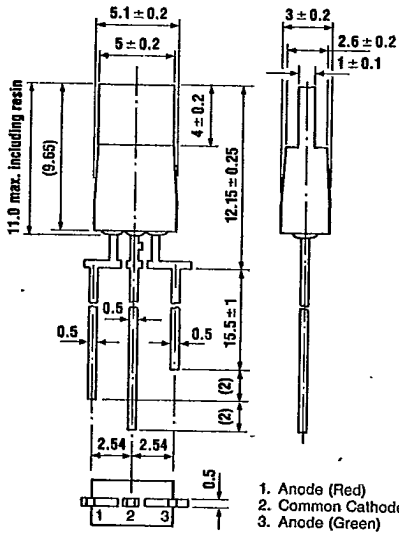
1. Anode (Red)
2. Common Cathode
3. Anode (Green)

AND116



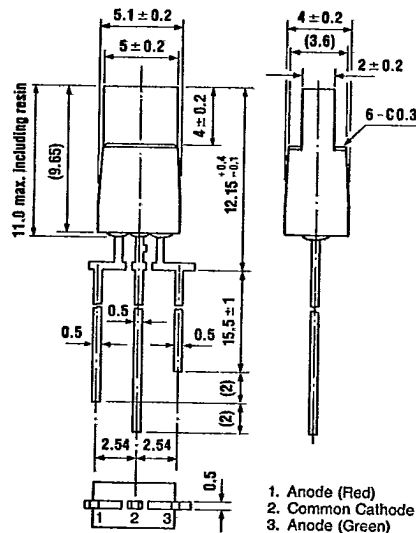
1. Anode (Red)
2. Common Cathode
3. Anode (Green)

AND205



1. Anode (Red)
2. Common Cathode
3. Anode (Green)

AND208



1. Anode (Red)
2. Common Cathode
3. Anode (Green)

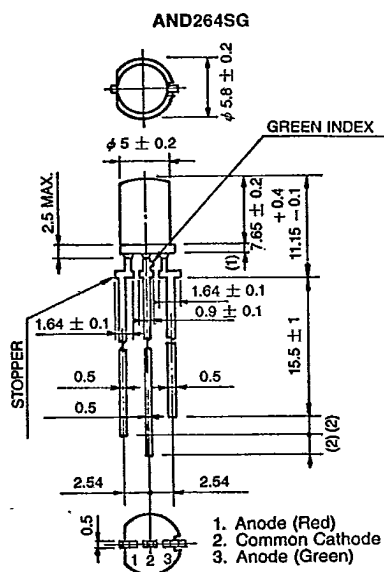
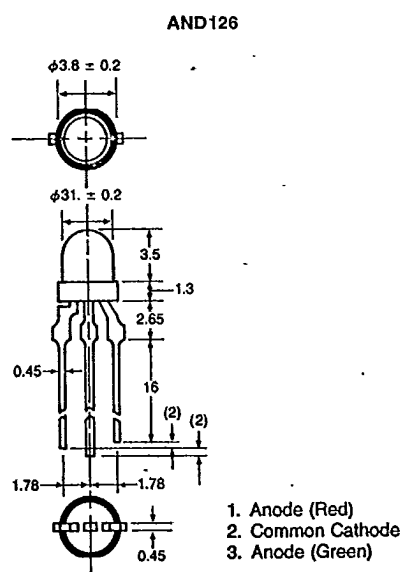
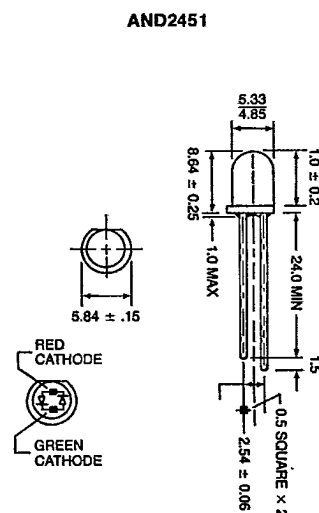
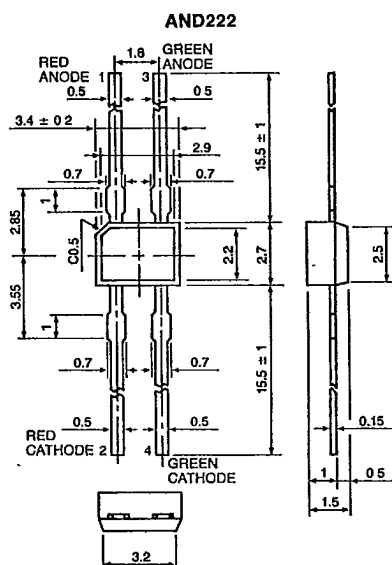


LED Lamps

DUAL COLOR

T-41-25

Outline Dimension (in millimeters)





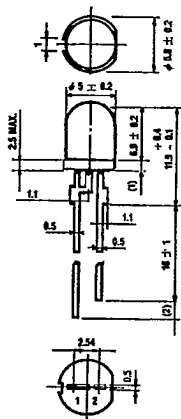
LED Lamps

DUAL COLOR

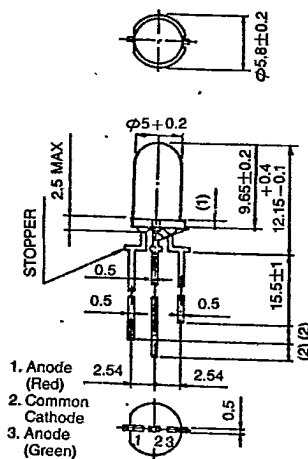
T-41-25

Outline Dimension (in millimeters)

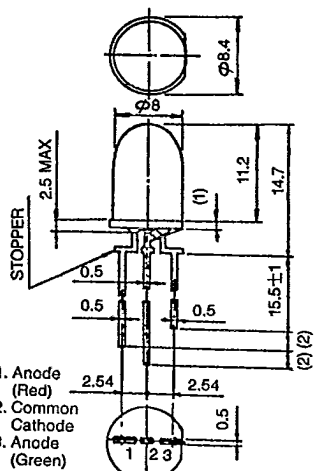
AND171SG



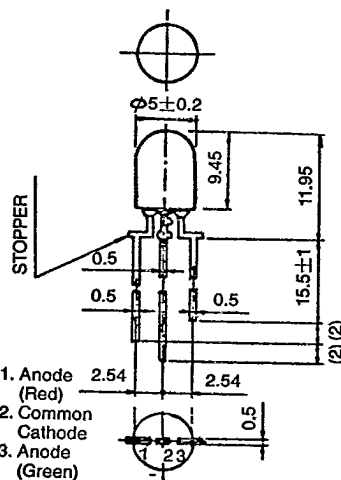
AND182SG



AND187RAG



AND177RAG



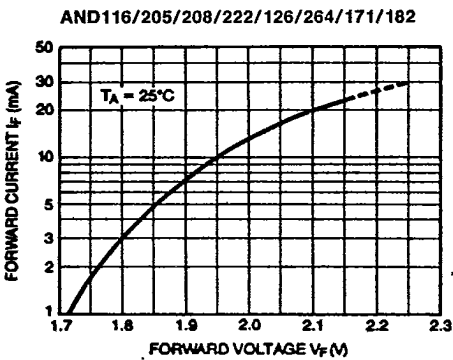
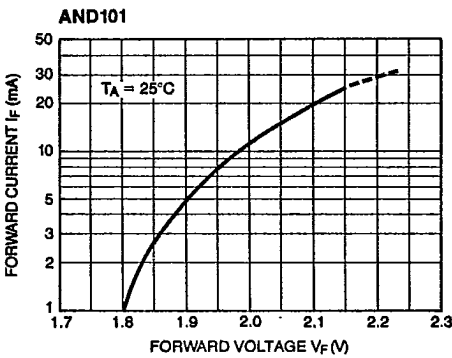


LED Lamps

DUAL COLOR

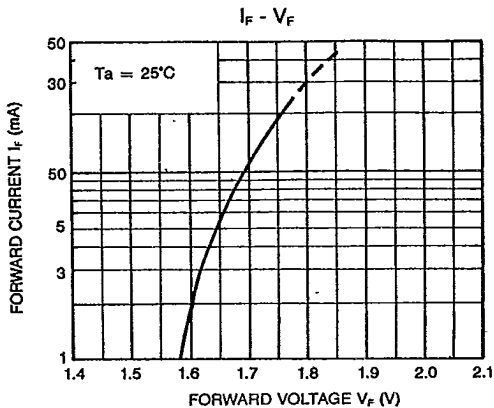
T-41-25

I_F vs. V_F

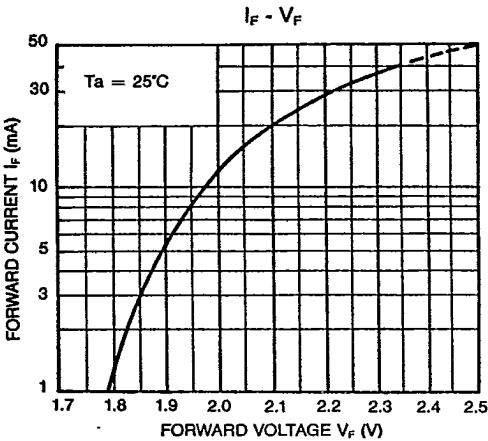


I_V vs. I_F

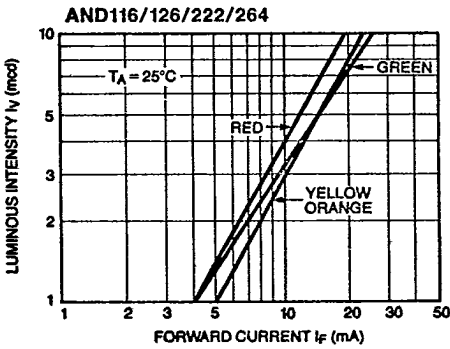
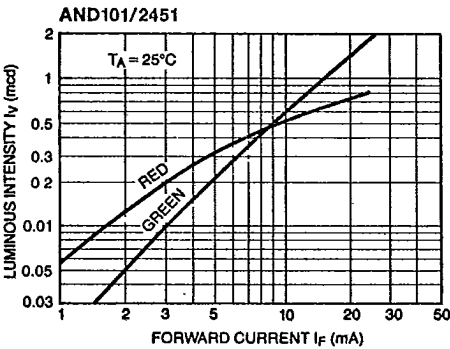
RED — AND177/187



GREEN — AND177/187



I_V vs. I_F



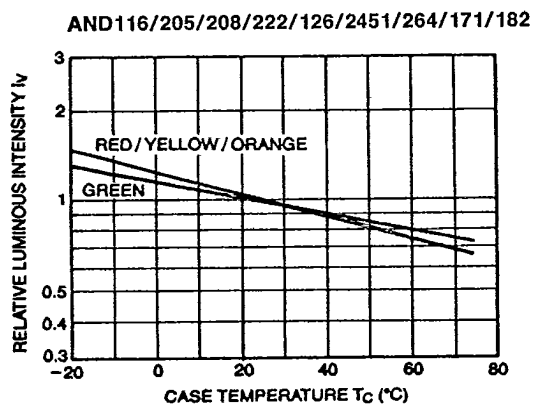
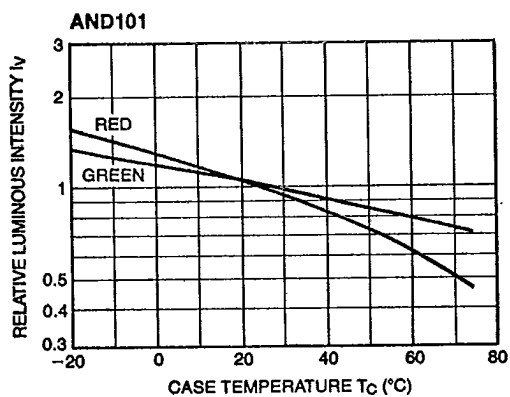
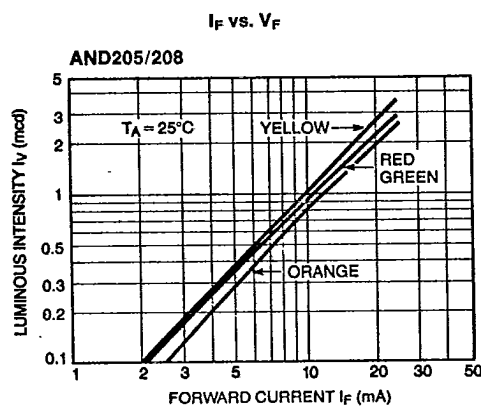
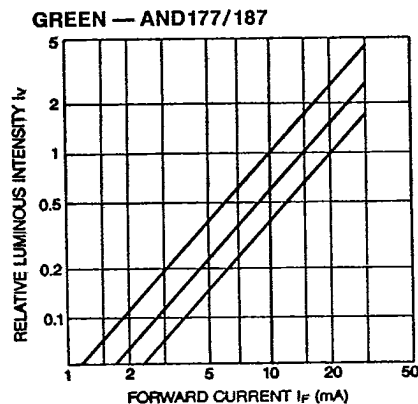
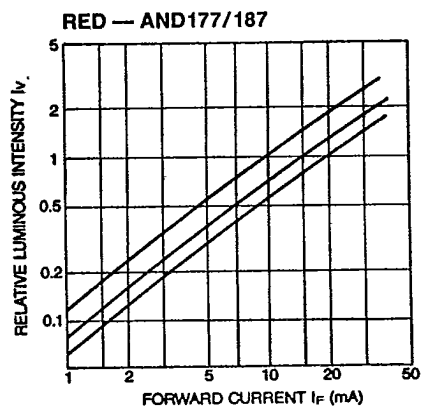


LED Lamps

DUAL COLOR

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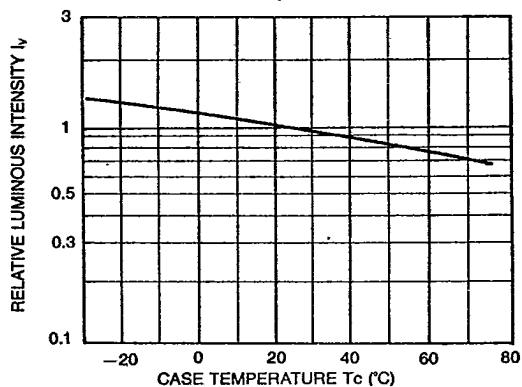
LED Lamps

DUAL COLOR

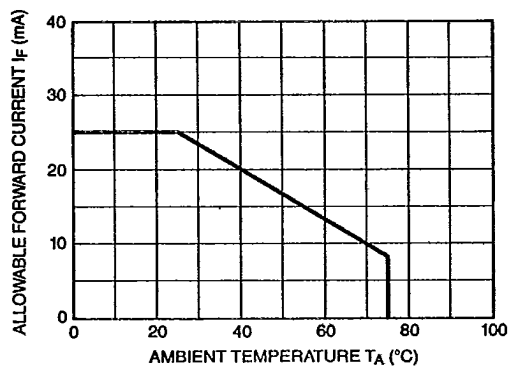
T-41-25

AND177/187

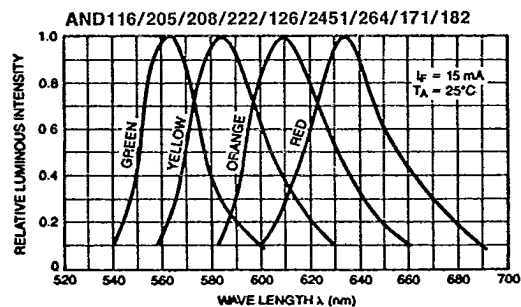
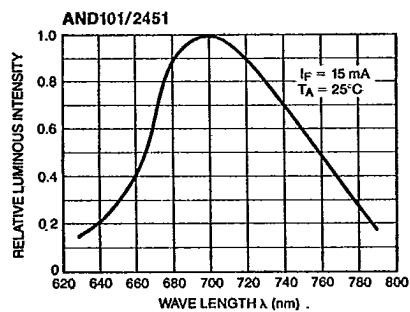
$I_V - T_C$



I_F vs. T_A



RELATIVE LUMINOUS INTENSITY vs. WAVE LENGTH



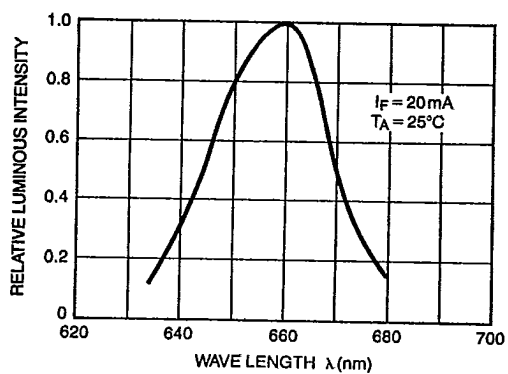


LED Lamps

DUAL COLOR

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RED — AND177/187



GREEN — AND177/187

