

LT9230□

■ Absolute Maximum Ratings ^{*1}

(Ta=25°C)

Parameter	Symbol	LT9230D	LT9230H				Unit
*2 Power dissipation	P	252	150				mW
Continuous forward current	I _F	30	20				mA
*3 Peak forward current	I _{FM}	50	50				mA
Derating factor	DC	-	0.55	0.36			mA/°C
	Pulse	-	0.91	0.91			mA/°C
Reverse voltage	V _R	1 5	1 5	1			v
Operating temperature	T _{opr}				-20 to +70		°C
Storage temperature	T _{stg}				-30 to +80		°C
*4 Soldering temperature	T _{sol}				260 (within 5 seconds)		°C

*1 Per chip

*2 Per lamp : 3 chips

*3 Duty ratio= 1/10, Pulse width =0.1ms

*4 At the position of 1.6 mm from (A) level of outline dimensions

LT9230D (Red) / LT9230H (Yellow)

■ Electro-optical Characteristics ※1

(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	LT9230D	I _F = 20mA	—	2.0	2.8	V
		LT9230H	I _F = 10mA		1.9	2.5	
※5 Luminous intensity	I _v	LT9230D	I _F = 20mA	10	25	—	'cd
		LT9230H	I _F = 10mA	3.0	9.0	—	
Peak emission wavelength	λ _p	LT9230D	I _F = 20mA	—	635	—	'm
		LT9230H	I _F = 10mA	—	585	—	
Spectrum radiation bandwidth	Δλ	LT9230D	I _F = 20mA	—	35	—	'm
		LT9230H	I _F = 10mA	—	30	—	
Reverse current	I _R	LT9230D	V _R = 4V	—	—	10	μA
		LT9230H	V _R = 4V	—	—	10	
Response frequency	f _c	LT9230D	—	—	4	—	MHz
		LT9230H	—	—	4	—	

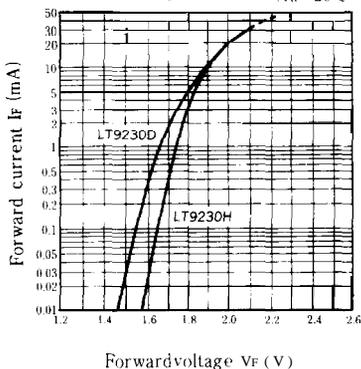
※1 Per chip

※5 Per lamp : 3 chips, Tolerance : ±30%

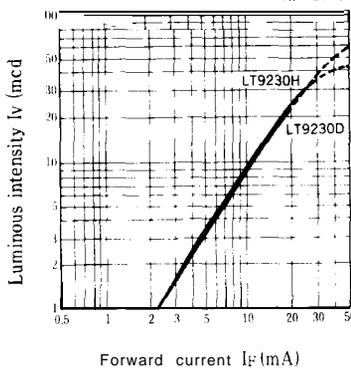
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■ Characteristics Diagrams

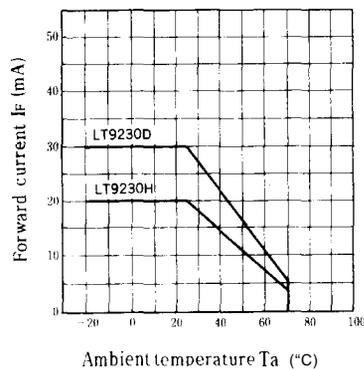
Forward Current vs. Forward Voltage (Ta = 25°C)



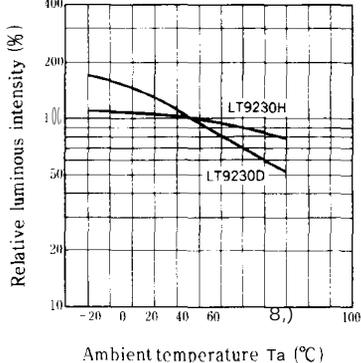
Luminous Intensity vs. Forward Current (Ta = 25°C)



Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (D: I_F = 20mA, H: I_F = 10mA)



Spectrum Distribution (Ta = 25°C)

