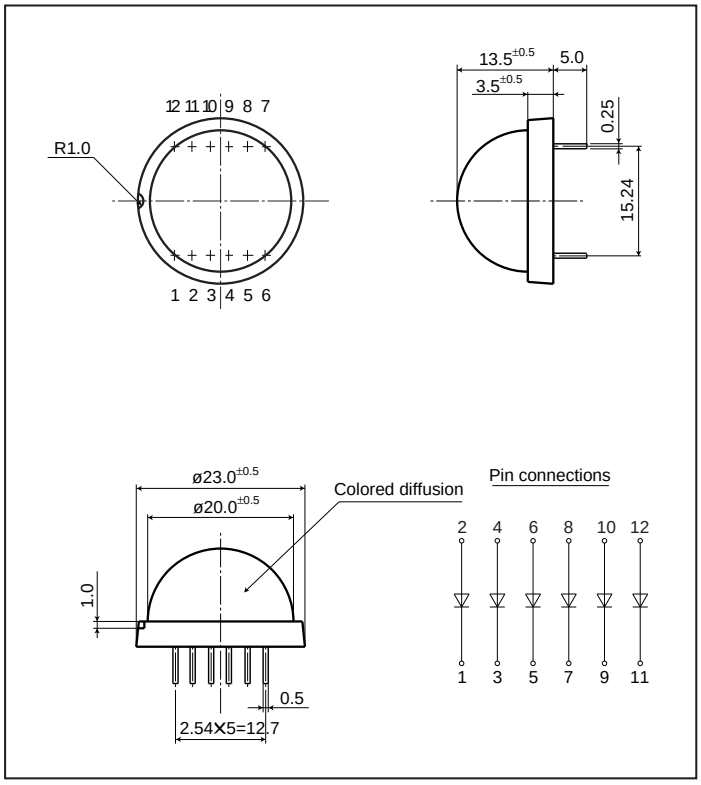
LT9525❑ series

ø20mm, Dome Type, Colored Diffusion, Large LED Lamps for Indoor Use

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings

(T_a=25˚C)

Model No.	Radiation color	Radiation material	Power dissipation P^{*1} (mW)	Forward current I_F^{*2} (mA)	Peak forward current I_{FM}^{*2*3} (mA)	Derating factor (mA/˚C)*2		Reverse voltage V_R^{*2} (V)	Operating temperature T_{opr} (˚C)	Storage temperature T_{stg} (˚C)	Soldering temperature T_{sol}^{*4} (˚C)
						DC	Pulse				
LT9525D	Red	GaAsP on GaP	1 010	60	100	1.09	1.82	5	-25 to +70	-30 to +80	260
LT9525S	Sunset orange	GaAsP on GaP	1 008	60	100	1.09	1.82	5	-25 to +70	-30 to +80	260
LT9525H	Yellow	GaAsP on GaP	625	40	100	0.73	1.82	5	-25 to +70	-30 to +80	260
LT9525E	Yellow-green	GaP	1 010	60	100	1.09	1.82	5	-25 to +70	-30 to +80	260

*1 Per lamp(6 chips/lamp)
*2 Per chip
*3 Duty ratio=1/10, Pulse width=0.1ms
*4 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

■ Electro-optical Characteristics*5

(T_a=25˚C)

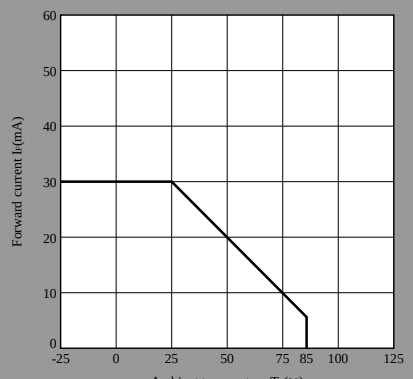
Lens type	Model No.	Forward voltage V_F(V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for characteristics diagrams
		TYP	MAX	λ_p(nm) TYP	I_F (mA)	I_V(mcd) TYP	I_F (mA)	$\Delta\lambda$(nm) TYP	I_F (mA)	I_R(μA) MAX	V_R (V)	C_t(pF) TYP	(MHz)	
Colored diffusion	LT9525D	2.0	2.8	635	40	70	40	35	40	10	4	35	1	→
	LT9525S	2.0	2.8	610	40	80	40	35	40	10	4	30	1	→
	LT9525H	1.9	2.6	585	20	35	20	30	20	10	4	30	1	→
	LT9525E	2.0	2.8	565	40	70	40	30	40	10	4	70	1	→

*5 Per chip
*6 Luminous intensity per lamp at I_F=40mA/chip(6 chips/lamp) Except LT9525H

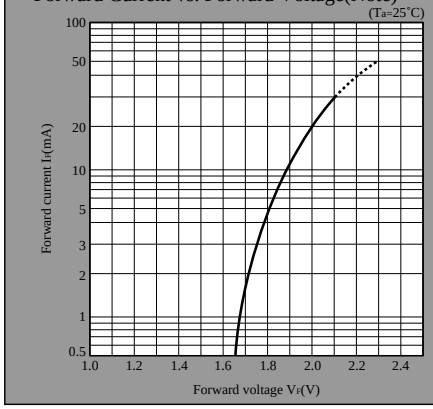
LED Lamp Characteristics Diagrams

HS series

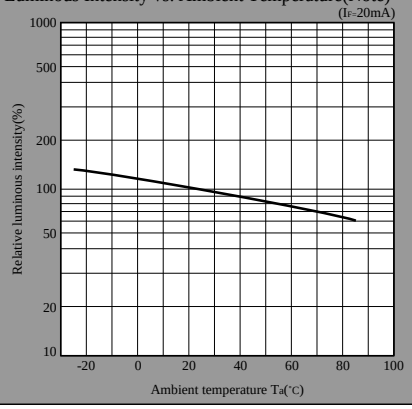
Forward Current Derating Curve



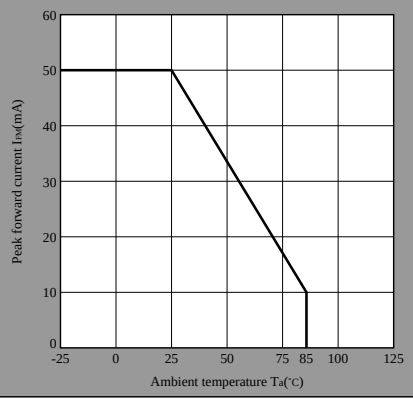
Forward Current vs. Forward Voltage(Note)



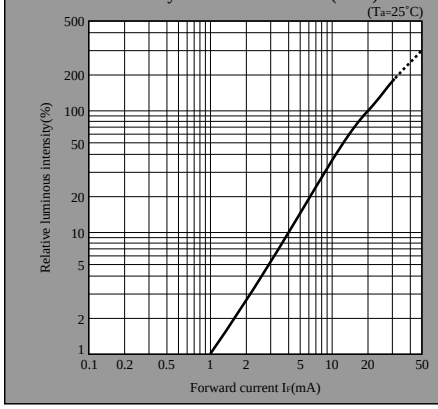
Luminous Intensity vs. Ambient Temperature(Note)



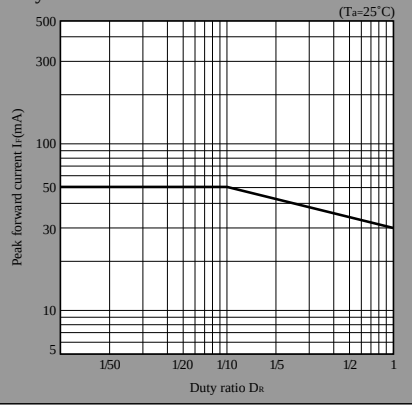
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

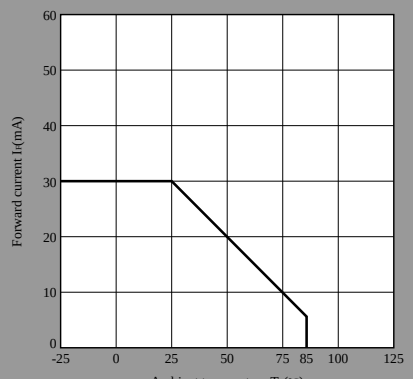


Duty Ratio vs. Peak Forward Current

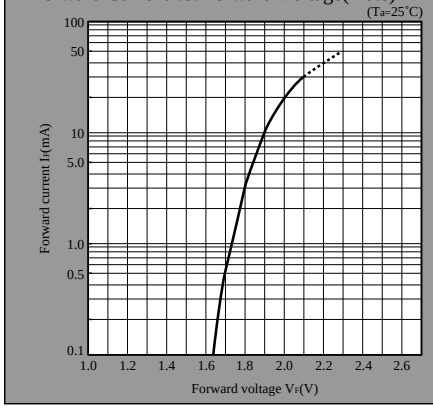


HY series

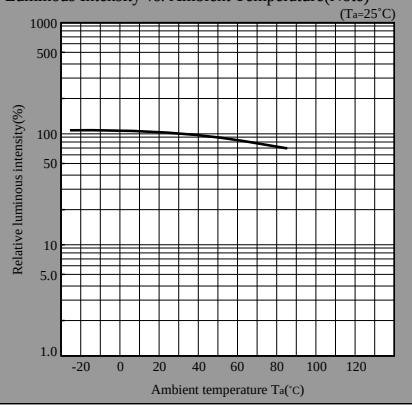
Forward Current Derating Curve



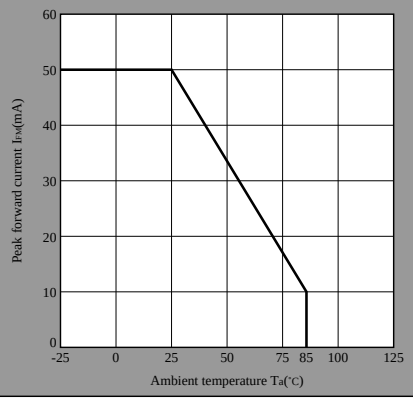
Forward Current vs. Forward Voltage(Note)



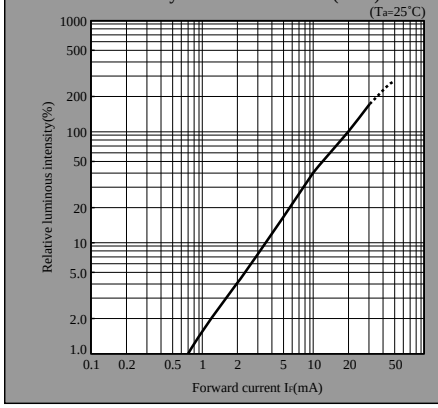
Luminous Intensity vs. Ambient Temperature(Note)



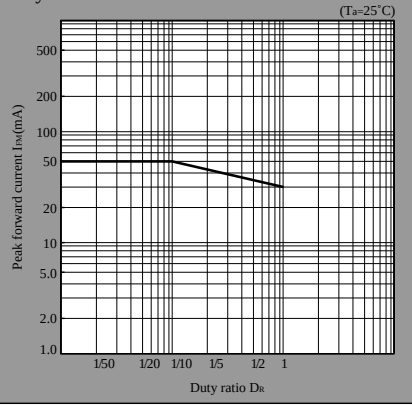
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



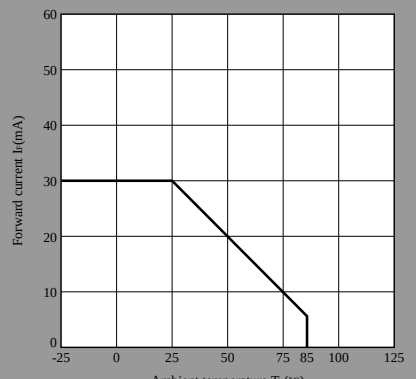
Duty Ratio vs. Peak Forward Current



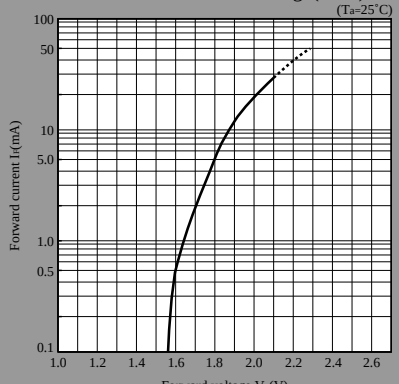
Note)Characteristics shown in diagrams are typical values. (not assurance value)

HD series

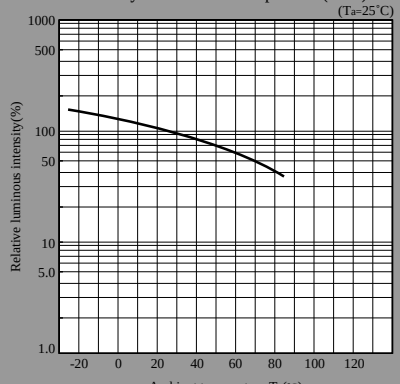
Forward Current Derating Curve



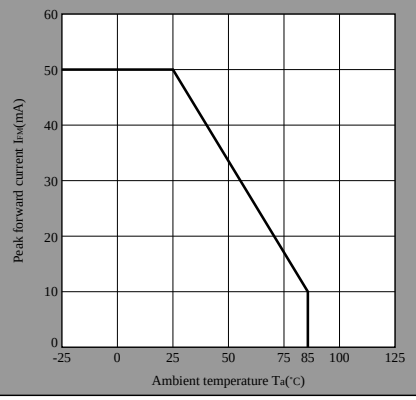
Forward Current vs. Forward Voltage(Note)



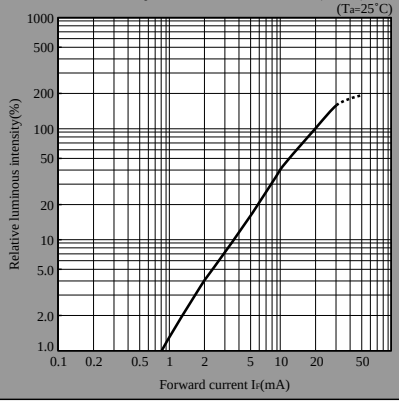
Luminous Intensity vs. Ambient Temperature(Note)



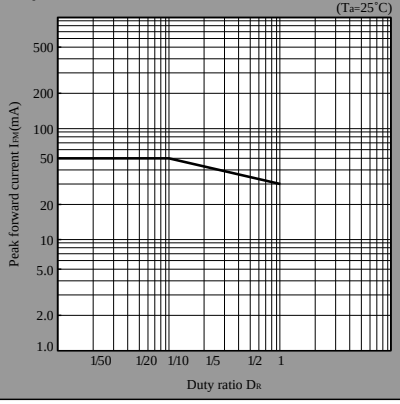
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



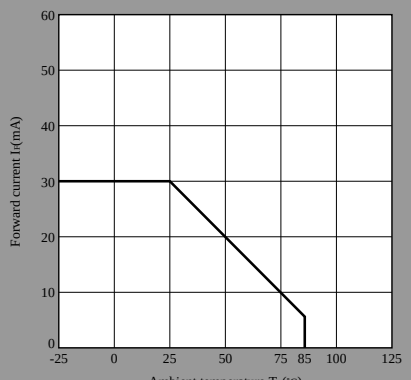
Duty Ratio vs. Peak Forward Current



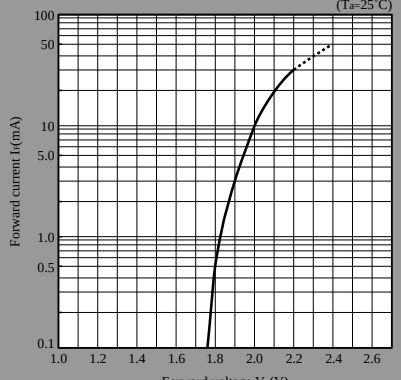
Note)Characteristics shown in diagrams are typical values. (not assurance value)

EG series

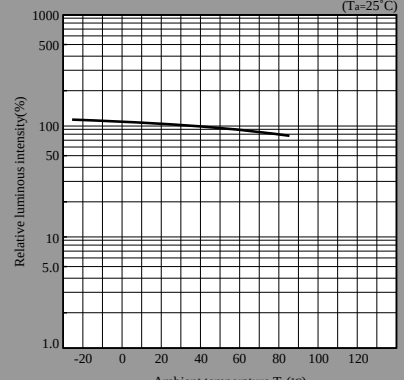
Forward Current Derating Curve



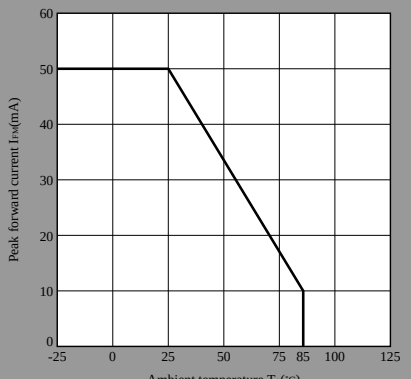
Forward Current vs. Forward Voltage(Note)



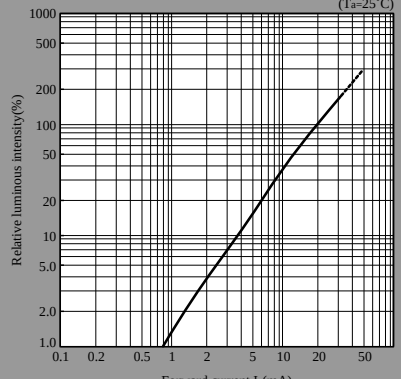
Luminous Intensity vs. Ambient Temperature(Note)



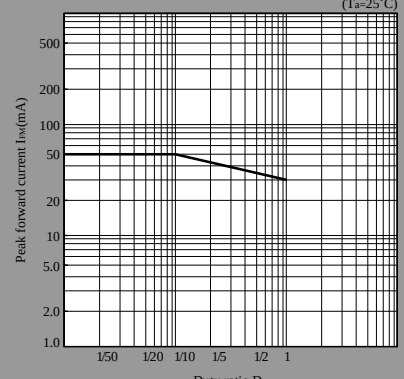
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



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