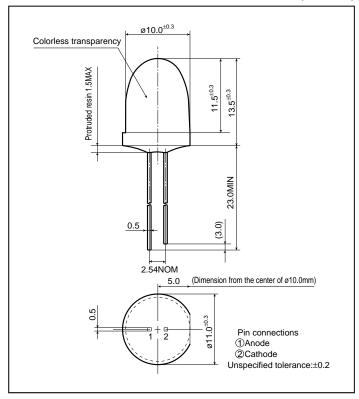
# LT9560 □ series

# ø10mm, Cylinder Type, Colorless Transparency, High-luminosity Large LED lamps for Outdoor Use

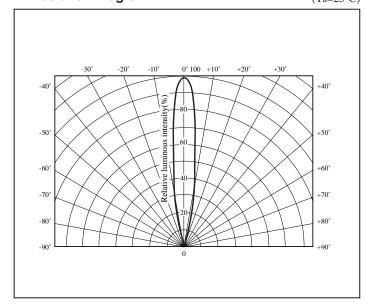
#### **■** Outline Dimensions

(Unit: mm)



#### **■** Radiation Diagram

(Ta=25°C)



# ■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Radiation color		Power dissipation P	$I_{\mathrm{F}}$	Peak forward current IFM*1	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub>	Operating temperature $T_{\mathrm{opr}}$	Storage temperature T <sub>stg</sub>	Soldering temperature $\mathbf{T_{sol}}^{*3}$	
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)	
LT9560U	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50	0.40	0.67	4	-25 to +85	-25 to +100	260	
LT9560T	Red(High-luminosity)	GaAlAs on GaAs	110	50	300*2	0.67	4.00	5	-25 to +85	-25 to +100	260	
LT9560D	Red	GaAsP on GaP	168	60	100	0.80	1.33	5	-25 to +85	-25 to +100	260	
LT9560S	Sunset orange	GaAsP on GaP	168	60	100	0.80	1.33	5	-25 to +85	-25 to +100	260	
LT9560H	Yellow	GaAsP on GaP	168	60	100	0.80	1.33	5	-25 to +85	-25 to +100	260	
LT9560E	Yellow-green	GaP	168	60	100	0.80	1.33	5	-25 to +85	-25 to +100	260	
LT9560J	Orange(Super-luminosity)	AlGaInP	130	50	100	0.67	1.33	4.1	-25 to +85	-25 to +100	260	
LT9560V	Yellow(Super-luminosity)	AlGaInP	130	50	100	0.67	1.33	4.1	-25 to +85	-25 to +100	260	

<sup>\*1</sup> Duty ratio=1/10, Pulse width=0.1ms \*2 Duty ratio=1/16, Pulse width≤1ms

### **■** Electro-optical Characteristics

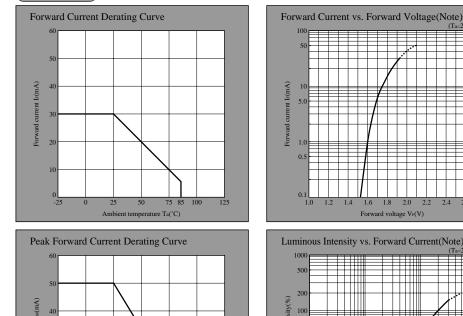
(Ta=25°C)

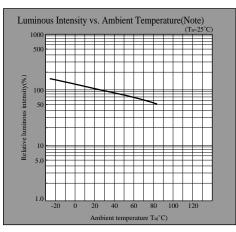
														(1a-23 C)
	Model No.	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
Lens type				$\lambda_p(nm)$	$\mathbf{I}_{\mathrm{F}}$	Iv(mcd)	$I_{F}$	$\Delta\lambda(nm)$	$I_{\mathrm{F}}$	Ir(µA)	$V_R$	C <sub>t</sub> (pF)	0.577	characteristics
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
	LT9560U	1.85	2.5	660	20	8 000	20	20	20	100	3	25	1	$\rightarrow$
	LT9560T	1.75	2.2	660	20	2 000	20	20	20	10	4	30	1	$\rightarrow$
	LT9560D	2.0	2.8	635	40	1 000	40	35	40	10	4	30	1	$\rightarrow$
Colorless	LT9560S	2.0	2.8	610	40	1 000	40	35	40	10	4	15	1	$\rightarrow$
transparency	LT9560H	2.0	2.8	585	40	700	40	35	40	10	4	30	1	$\rightarrow$
	LT9560E	2.2	2.8	565	40	1 200	40	30	40	10	4	70	1	$\rightarrow$
	LT9560J	1.9	2.6	620	20	12 000	20	18	20	100	4	26	1	$\rightarrow$
	LT9560V	1.9	2.6	590	20	6 000	20	13	20	100	4	24	1	$\rightarrow$

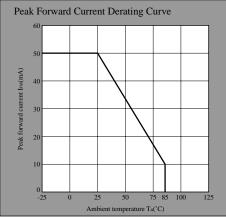
(Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

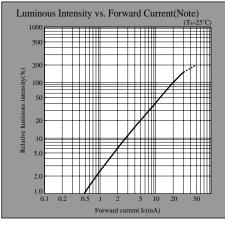
<sup>\*3 5</sup>s or less(At the position of 1.6mm or more from the bottom face of resin package)

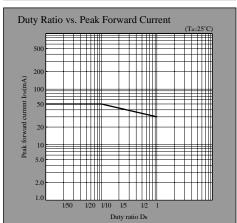
#### UR series



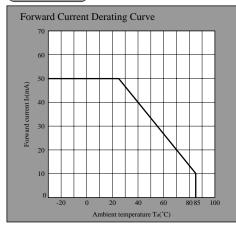


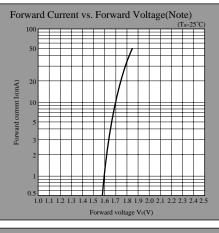


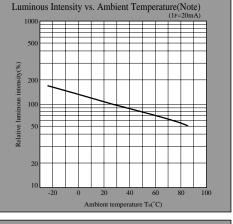


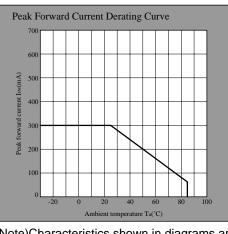


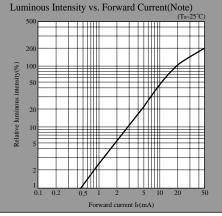
# TR series

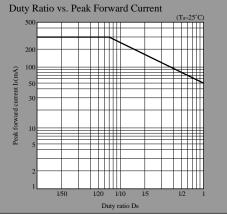








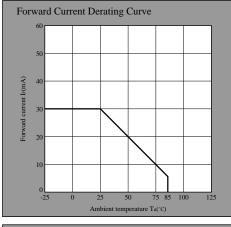


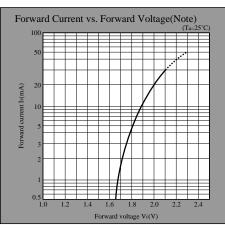


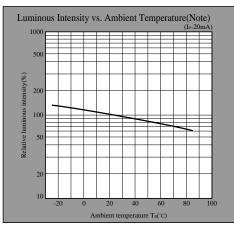
Note)Characteristics shown in diagrams are typical values. (not assurance value)

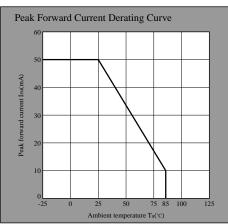
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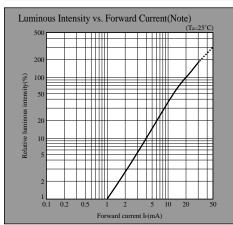
## **HS** series

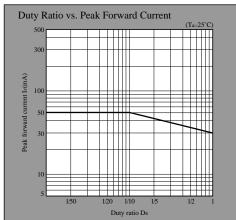




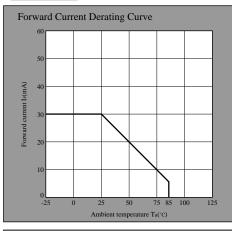


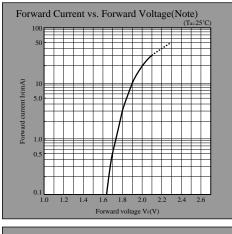


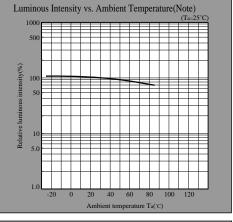


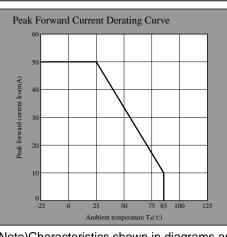


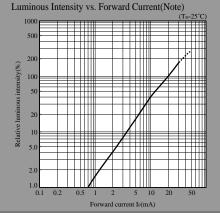
### HY series

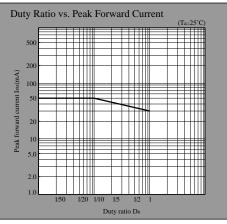








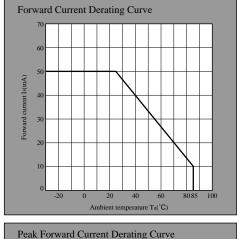


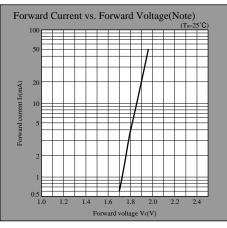


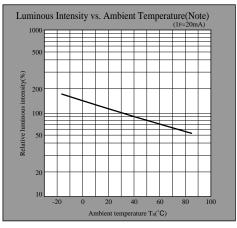
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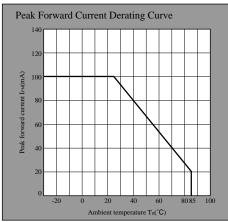
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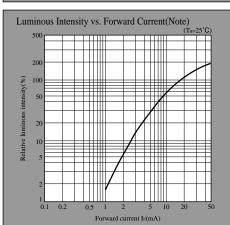
# HV series

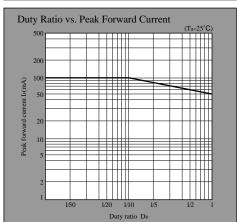




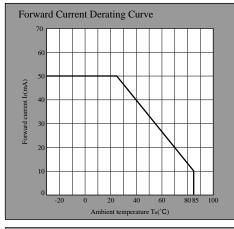


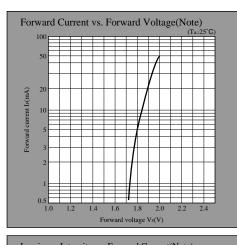


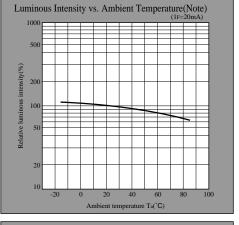


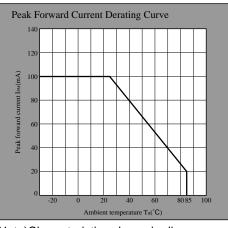


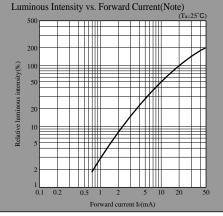
### HJ series

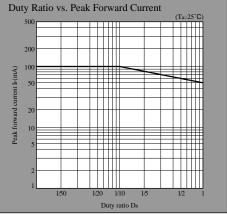








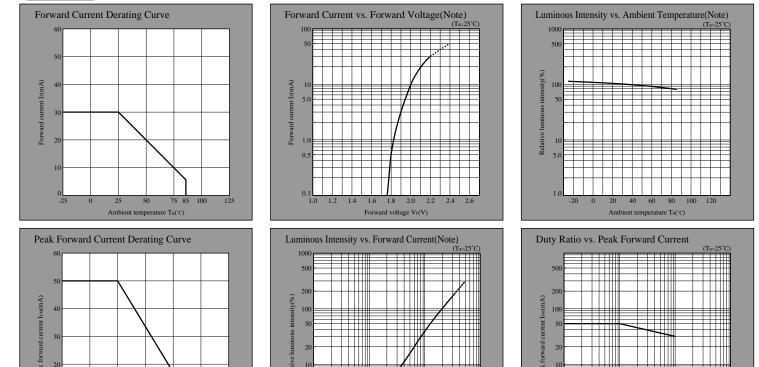




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# EG series



1/20 1/10

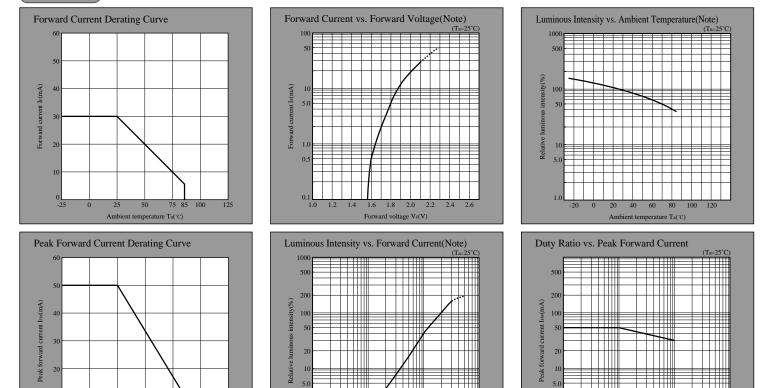
Duty ratio D<sub>R</sub>

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

Ambient temperature Ta(°C)

5.0

# HD series



Duty ratio D<sub>R</sub>

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