



Snowdragon Industrial Co.,Ltd

DATA SHEET

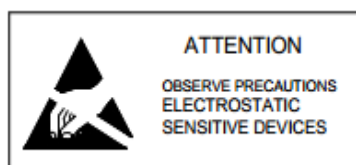
Modern NO.: SD-1588AHK/BHK

ENG. NO.: 13101801

Features:

- *Ø3.7mm,8COL.*8ROW., DOT MATRIX
- *CONTINUOUS UNIFORM SEGMENTS
- *LOW POWER REQUIREMENT
- *EXCELLENT CHARACTERS APPEARANCE
- *HIGH BRIGHTNESS & HIGH CONTRAST
- *WIDE VIEWING ANGLE
- *SOLID STATE RELIABILITY

PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		



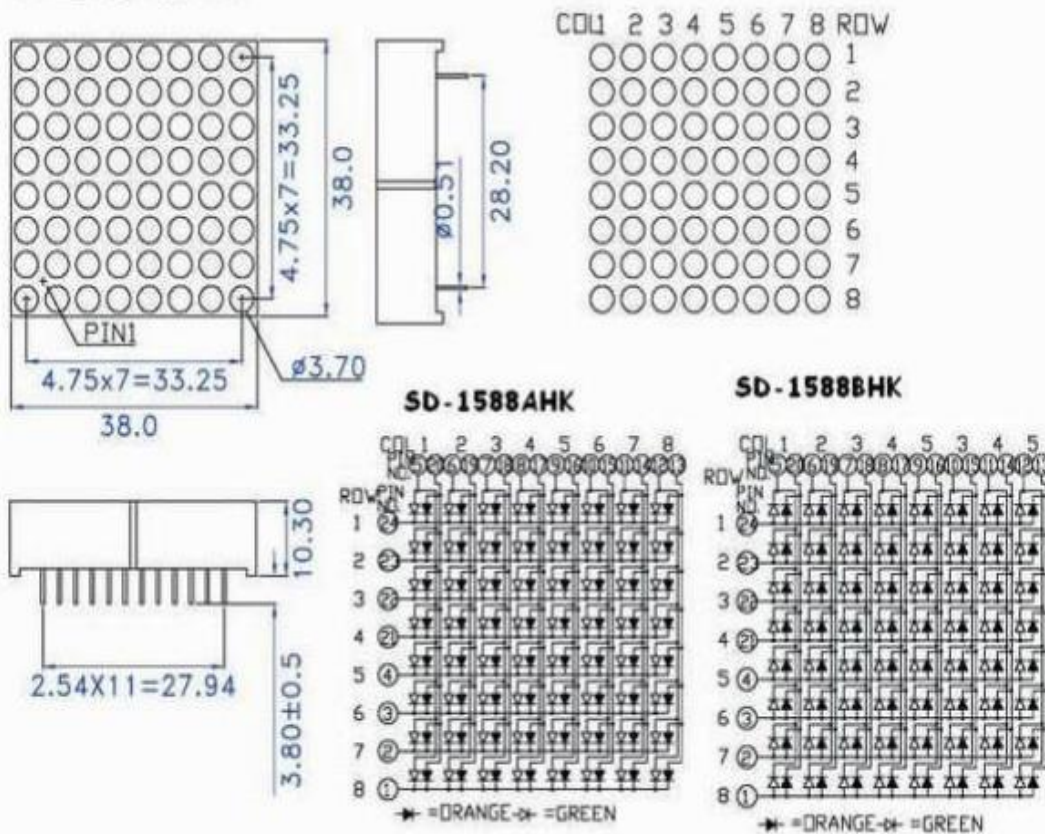
DESCRIPTION

*The device is single-color (red-yellowgreen) applicable display.

*The device has a black face and scattering segments.

LED Dot Matrix 3.75 Bi-colors 8*8

SD-1588AHK/BHK



ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RED	YELLOW-GREEN	UNIT
Power Dissipation Per Chip	P_d	46	46	mW
Peak Forward Current Per Chip (Frequency 1Khz, 10% duty cycle)	I_{fp}	100*	100*	mA
Continuous Forward Current Per Chip Derating Linear From 25°C Per Chip	I_f	25	25	mA
		0.33	0.33	mA/°C
Reverse Voltage Per Chip	V_R	5	5	V
Operating Temperature Range	T_a	-25°C to +85°C		
Storage Temperature Range	T_{stg}	-25°C to +85°C		
Solder Temperature: max 260°C for max 3 sec at 1.6mm below seating plane				

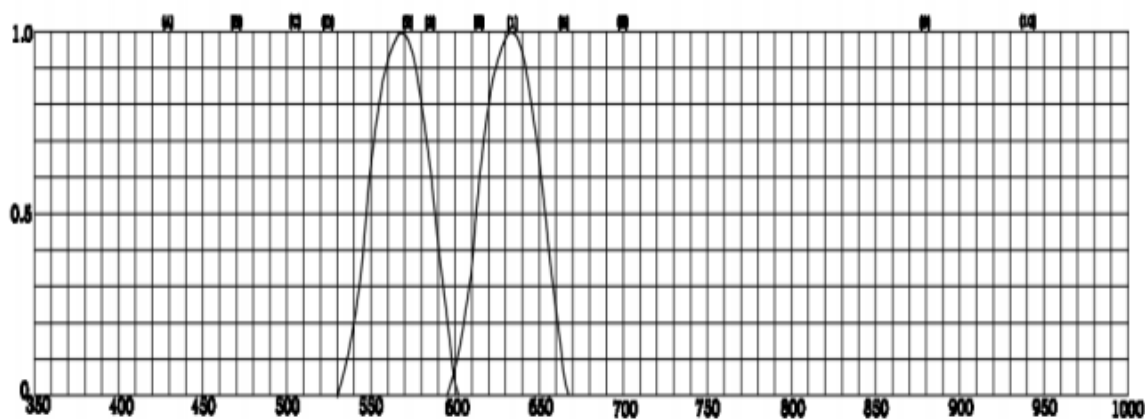
ELECTRICAL/OPTICAL CHARACTERISTICS AT T_a=25°C

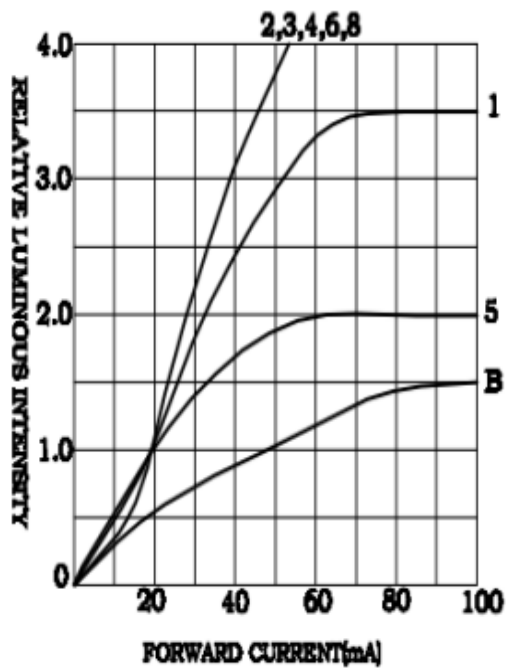
PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	RED	I _v	10		20	mcd	I _F = 20mA
	YG	I _v	11		29	mcd	
Dominant Wavelength	RED	λ _d	640		650	nm	I _F = 20mA
	YG	λ _d	570		575	nm	
Spectral Line Half-Width	RED	Δλ	20			nm	I _F = 20mA
	YG	Δλ	20			nm	
Forward Voltage Per Chip	RED	V _F	1.9		2.3	V	I _F = 20mA
	YG	V _F	2.0		2.3	V	
Reverse Current Per Chip		I _R	10			μA	V _R = 5V
Luminous Intensity Matching Ratio		I _{v-m}	2:1				I _F = 10mA

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

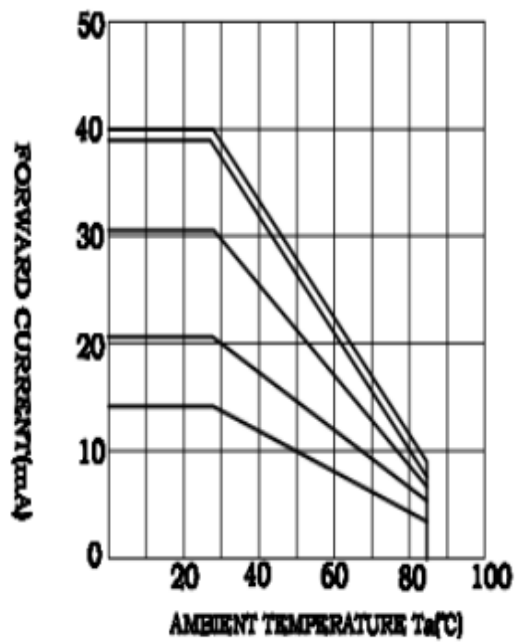
(25 °C Ambient Temperature Unless Otherwise Noted)

TYPICAL ELECTRICAL-OPTICAL CHARACTERISTICS CURVES

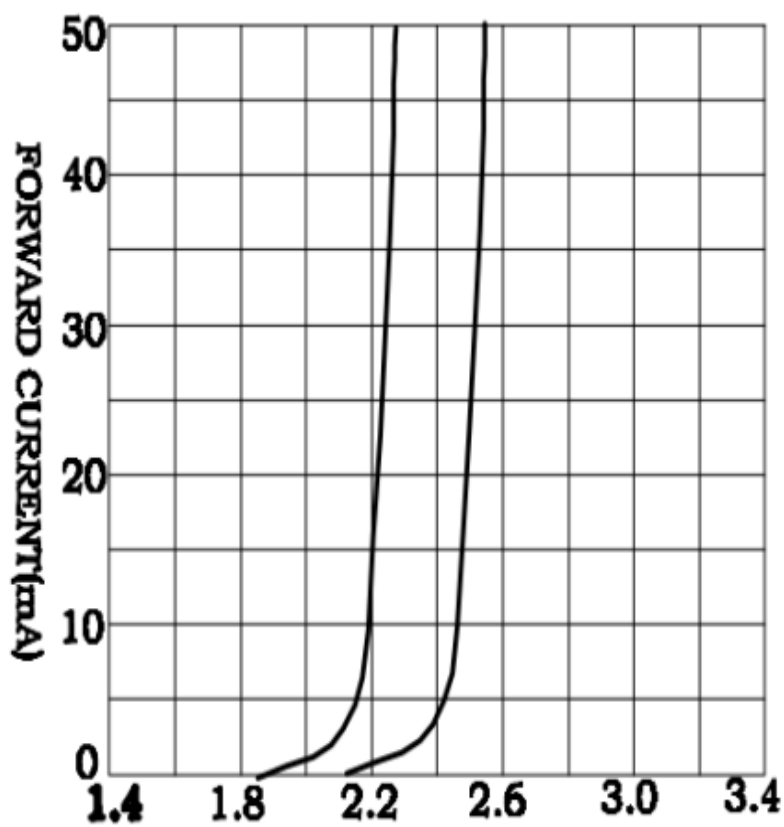




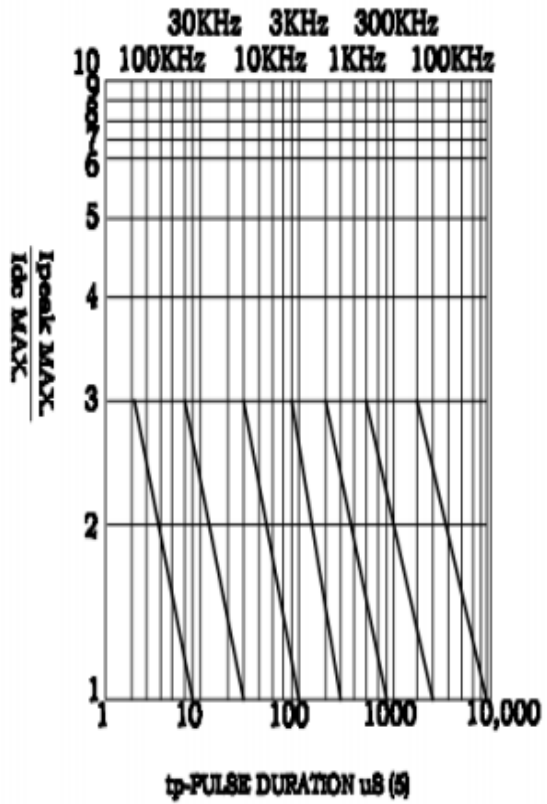
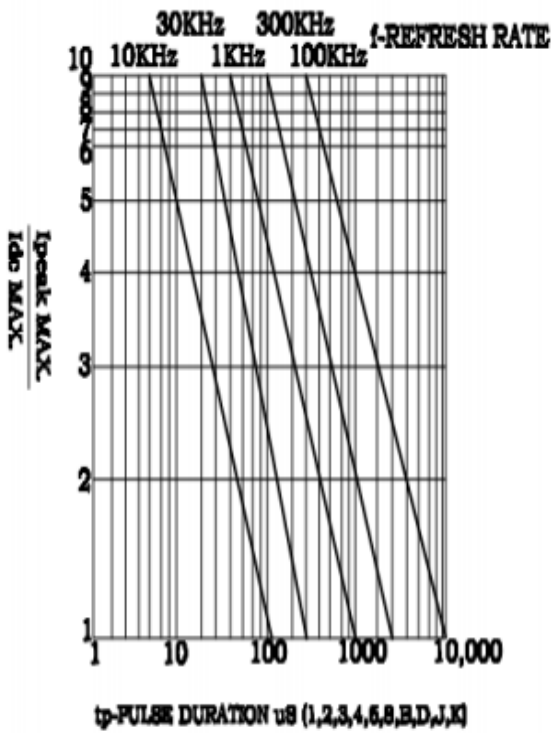
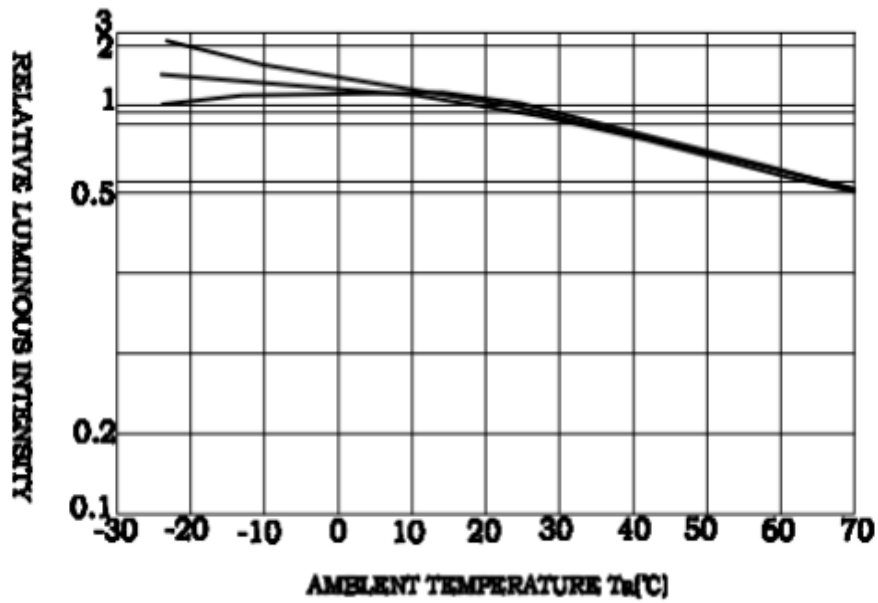
RELATIVE LUMINOUS INTENSITY VS.FORWARD CURRENT



FORWARD CURRENT VS.AMBIENT TEMPERATURE



FORWARD VOLTAGE (VF) FORWARD CURRENT VS.FORWARD VOLTAGE



NOTE: 25°C free air temperature unless otherwise specified.