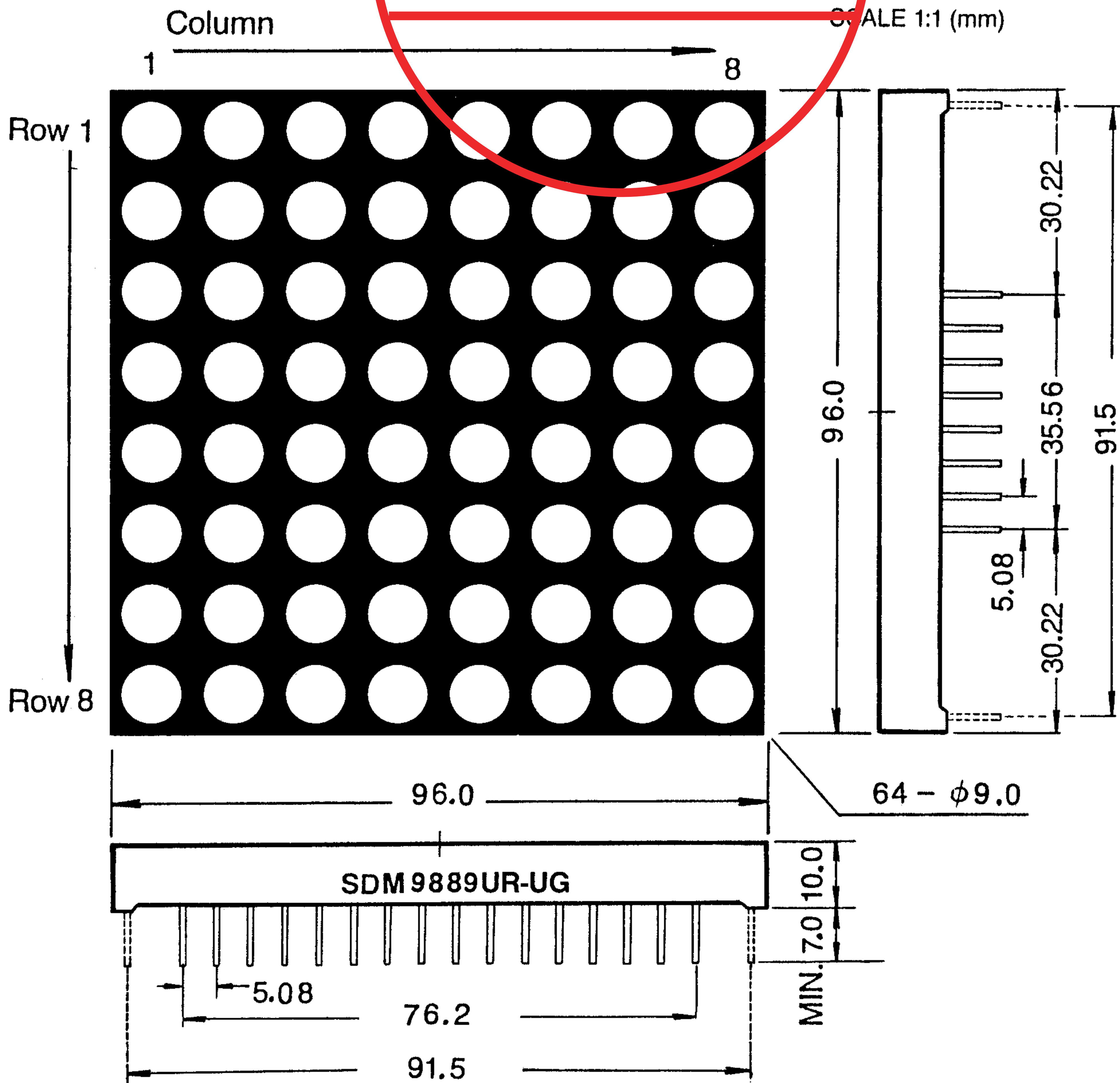


High Reliability 3.78-inch (96.0 mm) Dual-Color 9mm 8x8 Dot Matrix LED Displays **SDM-9889**

GENERAL DESCRIPTION

The SDM-9889 (Cathode-column) is a high degree of reliability epoxy resin molded, 9mm diameter and 8x8 dot matrix LED display. Two red and two green chips are contained in each dot and it could be displayed in red or green color separately and appears in amber color when drive to red and green side in the same time.

PACKAGE DIMENSIONS



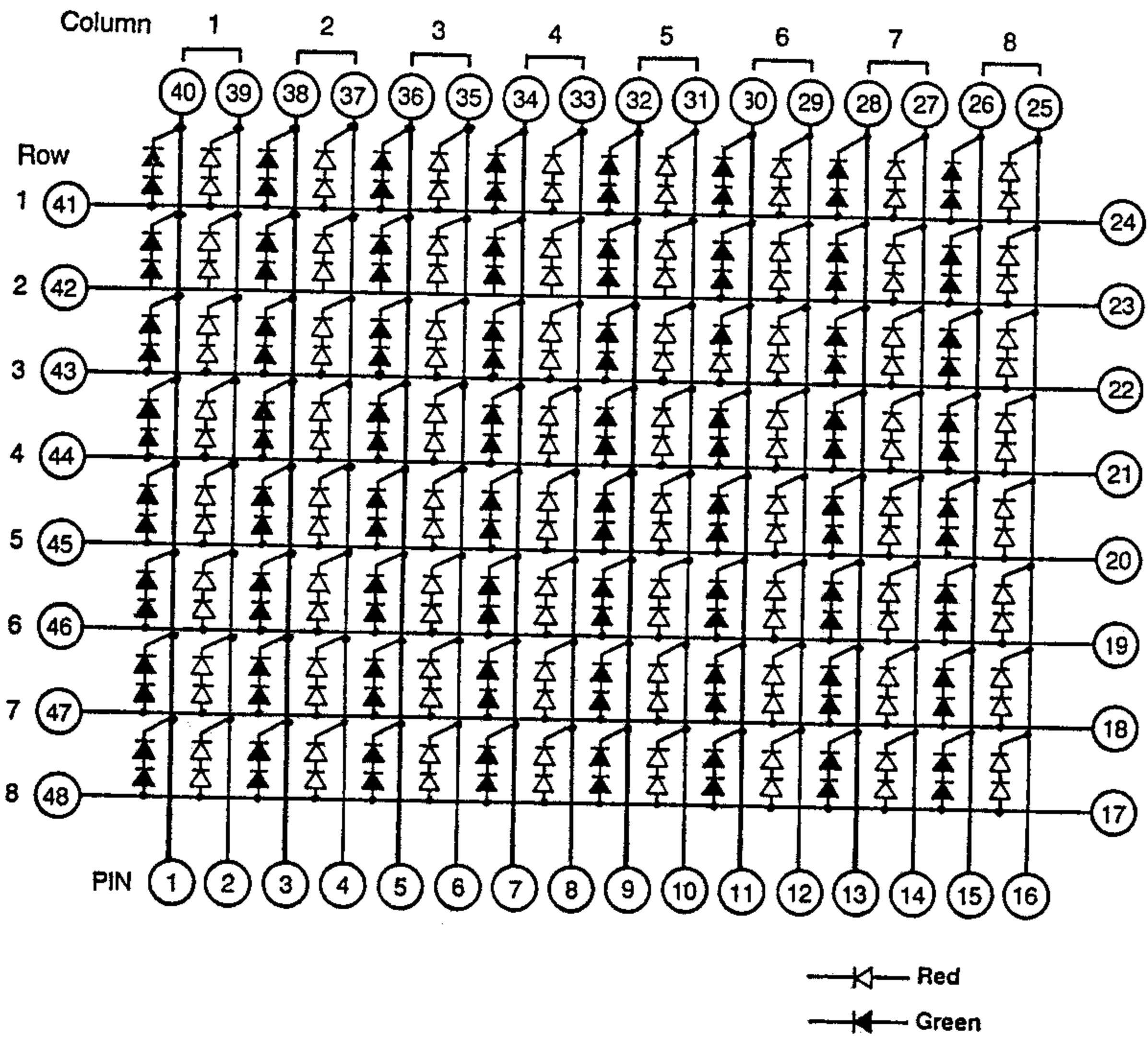
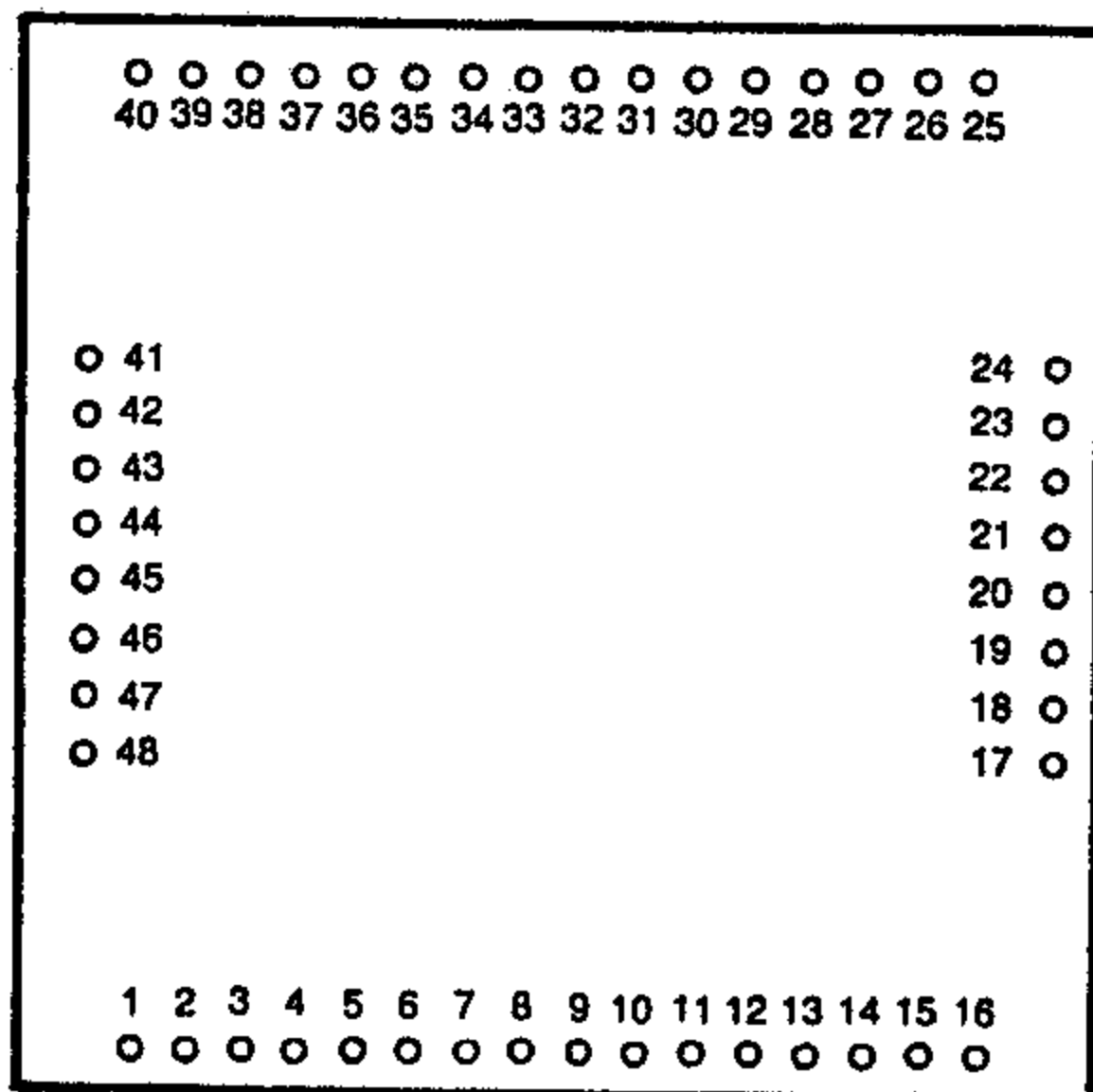
三光半導體株式會社

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 TEL:031-456-1444/1484, FAX:031-456-4224

CONNECTIONS GUIDE

(Top View)



SDM 9889UR-UG (GaAlAs-GaP)

Red UR SIDE (GaAlAs)

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Power dissipation/Total	5000	mW
Power dissipation/Chip	30	mW
Forward current	15	mA
Peak forward current	60*	mA
Reverse voltage	10	V
Operating temperature	-25 ~ +85	$^\circ\text{C}$
Storage temperature	-55 ~ +100	$^\circ\text{C}$

Electrical/Optical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Chip	V_F	$I_F = 10\text{mA}$	—	3.8	4.0	V
Reverse current/Chip	I_R	$V_R = 10\text{V}$	—	—	10	μA
Luminous Intensity/Chip	I_v	$I_F = 10\text{mA}$	900	1500	—	μcd
Peak wavelength	λ_P	$I_F = 10\text{mA}$	—	635	—	nm
Spectral line halfwidth	$\Delta\lambda$	$I_F = 10\text{mA}$	—	35	—	nm

Yellow-green UG SIDE (GaP)

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Power dissipation/Total	5000	mW
Power dissipation/Chip	30	mW
Forward current	15	mA
Peak forward current	60*	mA
Reverse voltage	10	V
Operating temperature	-25 ~ +85	$^\circ\text{C}$
Storage temperature	-55 ~ +100	$^\circ\text{C}$

Electrical/Optical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Chip	V_F	$I_F = 10\text{mA}$	—	4.3	4.6	V
Reverse current/Chip	I_R	$V_R = 10\text{V}$	—	—	10	μA
Luminous intensity/Chip	I_v	$I_F = 10\text{mA}$	600	1200	—	μcd
Peak wavelength	λ_P	$I_F = 10\text{mA}$	—	565	—	nm
Spectral line halfwidth	$\Delta\lambda$	$I_F = 10\text{mA}$	—	30	—	nm

* Pulse Width 1 ms
Duty Cycle 1/5

SDM 9889 SR-UG (GaAsP/GaP-GaP)

Could be made for customs order only.