PARA LIGHT ELECTRONICS CO., LTD.
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DATA SHEET

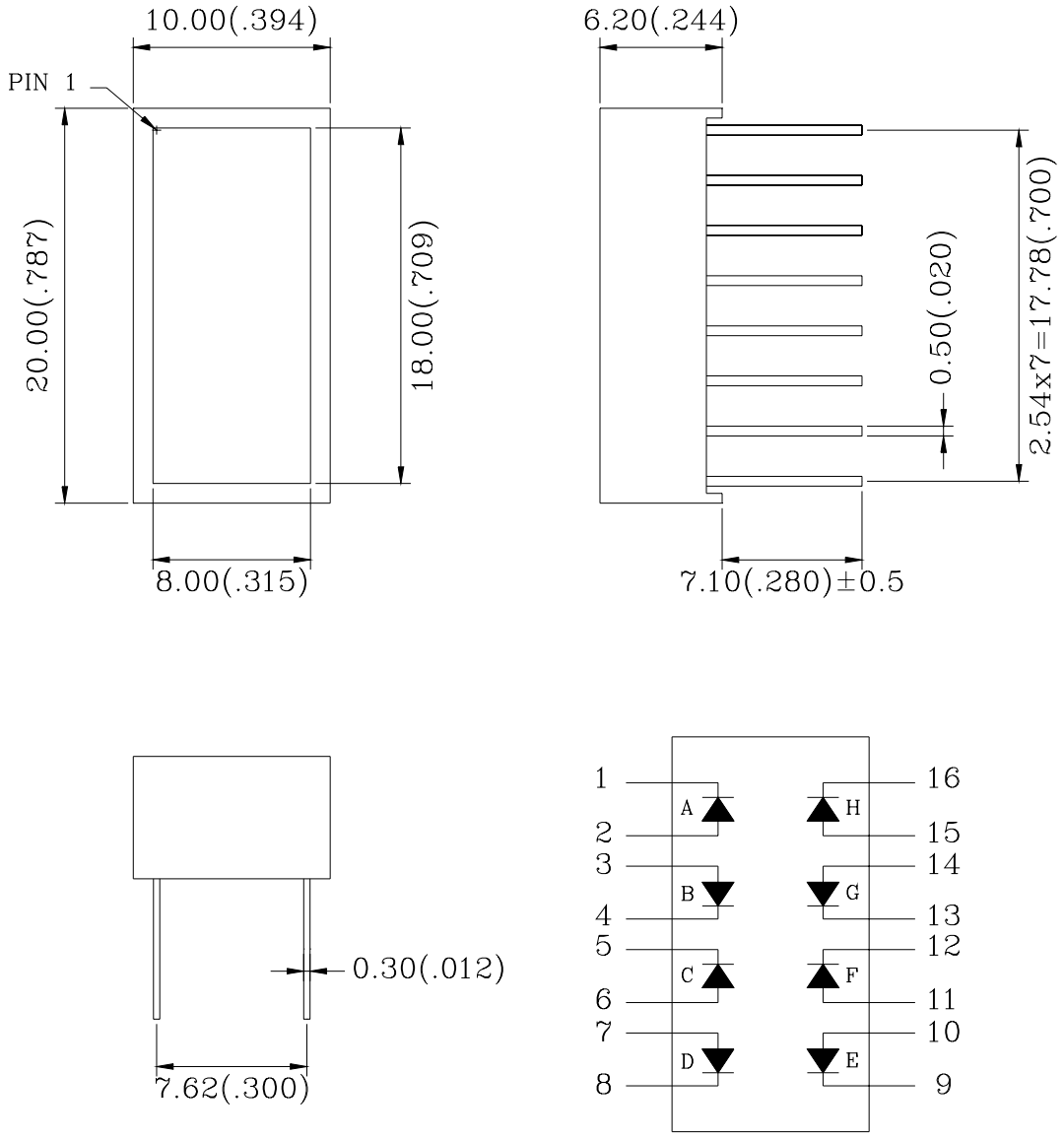
PART NO. : B-1020SR

REV : A / 1

CUSTOMER'S APPROVAL : _____ DCC : _____

PARA LIGHT	20 mm x 10 mm SQUARE LIGHT BAR	
	B-1020SR	REV:A / 1

PACKAGE DIMENSIONS



NOTES : 1. All dimensions are in millimeters. (inches)
2. Tolerance is ± 0.25(0.010") unless otherwise specified.

FEATURES

- ∗ 20mm x10mm SQUARE LIGHT BAR
- ∗ LOW POWER REQUIREMENT
- ∗ CAN BE USED WITH PANEL AND LEGEND MOUNT
- ∗ SUITABLE FOR MULTIPLEX OPERATION
- ∗ EASY MOUNTING ON P.C.B

Raw Material : GaAlAs/GaAs

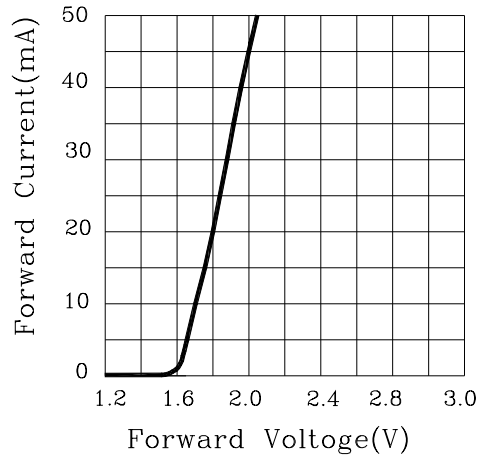
ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

SYMBOL	PARAMETER	SUPER RED	UNIT
P_{AD}	Power Dissipation Per Chip	60	mW
V_R	Reverse Voltage Per Chip	5	V
I_{AF}	Continuous Forward Current Per Chip	20	mA
—	Derating Linear From 25°C Per Chip	0.33	mA/°C
Topr	Operating Temperature Range	−35°C to 85°C	
Tstg	Storage Temperature Range	−35°C to 85°C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 250°C			

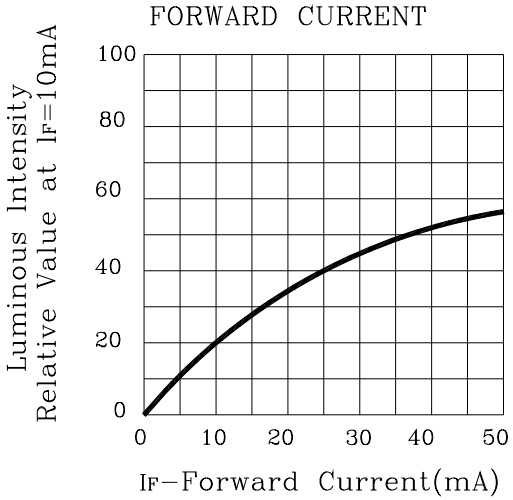
ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
V_F	Forward Voltage , Per Chip	I_F = 20mA		1.8	2.2	V
I_R	Reverse Current , Per Chip	V_R = 5V			100	μA
λ_P	Peak Emission Wavelength	I_F = 20mA		660		nm
λ_D	Dominant Wavelength	I_F = 20mA		643		nm
$\Delta\lambda$	Spectral Line Half−Width	I_F = 20mA		20		nm
I_V	Luminous Intensity Per Bar	I_F = 10mA		20.0		mcd

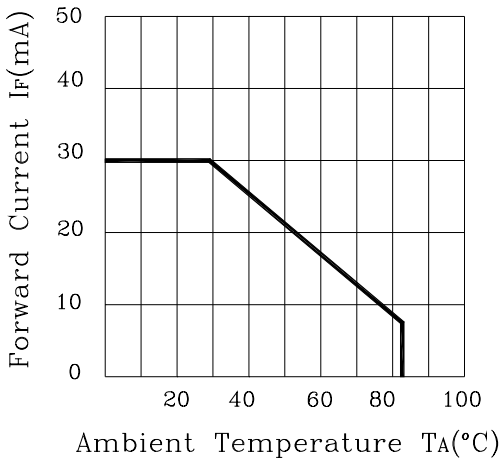
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE