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DATA SHEET

PART NO. : B-1020SR

REV : A / 1

CUSTOMER'S APPROVAL : _____

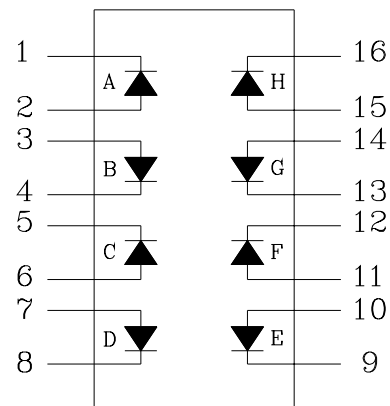
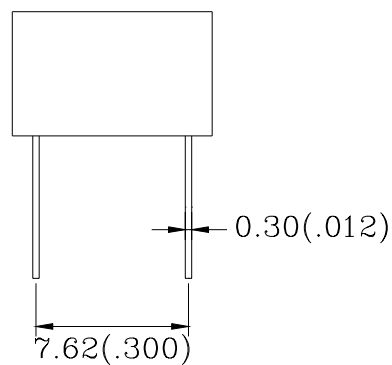
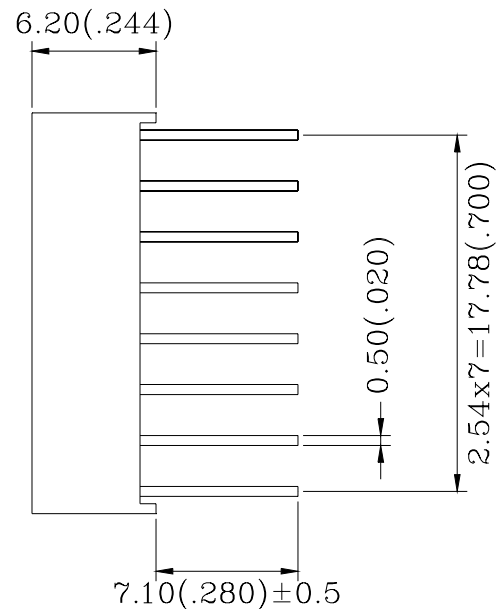
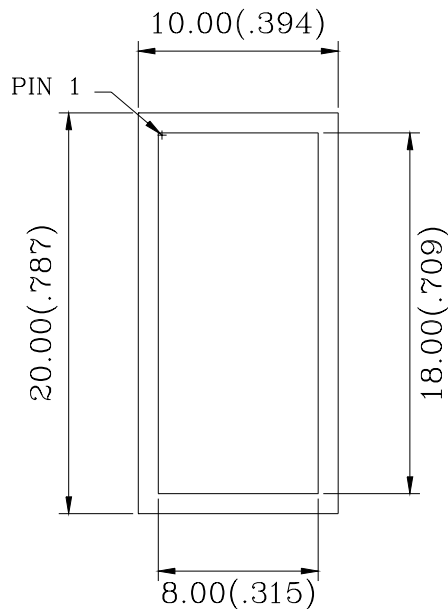
DCC : _____

DRAWING NO. : DS-17-02-0127

DATE : 2003-10-15

Page : 1

PACKAGE DIMENSIONS



NOTES : 1. All dimensions are in millimeters. (inches)
2. Tolerance is $\pm 0.25(0.010)$ 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

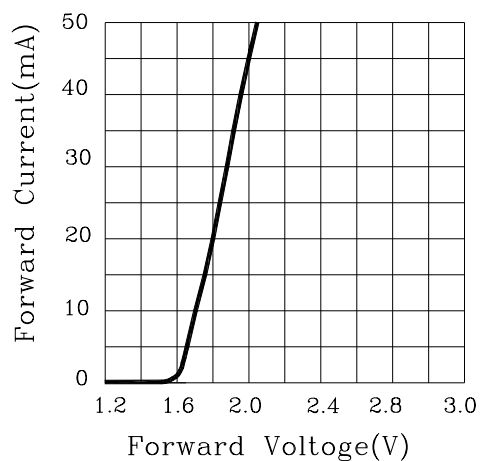
ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

SYMBOL	PARAMETER	SUPER RED	UNIT
PAD	Power Dissipation Per Chip	60	mW
VR	Reverse Voltage Per Chip	5	V
IAF	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			

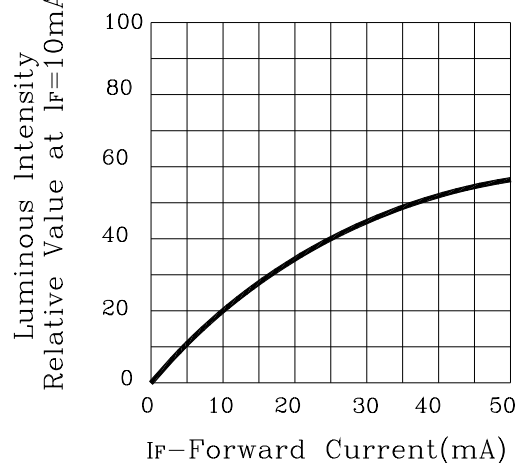
ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage , Per Chip	IF = 20mA		1.8	2.2	V
IR	Reverse Current , Per Chip	VR = 5V			100	μA
λP	Peak Emission Wavelength	IF = 20mA		660		nm
λD	Dominant Wavelength	IF = 20mA		643		nm
Δλ	Spectral Line Half – Width	IF = 20mA		20		nm
IV	Luminous Intensity Per Bar	IF = 10mA		20.0		mcd

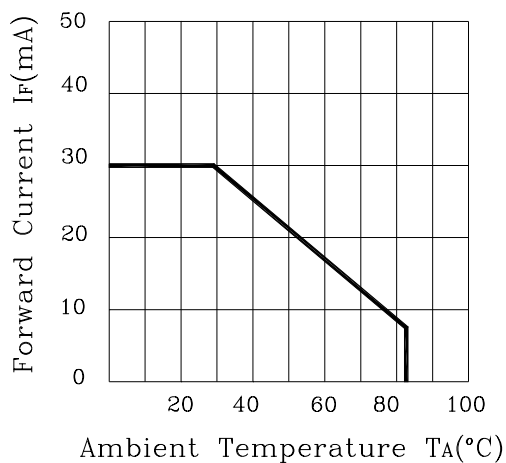
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

