TOYO LED ELECTRONICS LIMITED
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ABSOLUTE MAXIMUM RATINGS (Ta = 25℃)

CODE = B
SUPER BRIGHT RED

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
POWER DISSIPATION	P_T	100	mW
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 MS PULSE WIDTH)	I_{PEAK}	150	mA
FORWARD CURRENT	I_F	30	mA
REVERSE VOLTAGE	V_R	5	V
OPERATING TEMPERATURE RANGE	T_A	-40℃ TO +85℃	
STORAGE TEMPERATURE RANGE	T_{STG}	-40℃ TO +85℃	
SOLDER TEMPERATURE 1/16 INCH BELOW SEATINGPLANE FOR 3 SECONDS AT 260℃			

ELECTRICAL OPTICAL CHARACTER AND CURVES AT TO · 25℃

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	15	16	17	MCD	I_F =20mA
Peak Emission Wavelength	λp / λd	640	650	660	nm	I_F =20mA
Spectral Line Half-Width	$\Delta\lambda$	-	20	-	nm	I_F =20mA
Forward Voltage	V_F	1.80	2.0	2.20	V	I_F =20mA
Reverse Current	I_R	-	-	20	μA	V_R = 5V
Luminous Intensity Matching Ratio	I_V	-	-	1.5:1	-	I_F =20mA