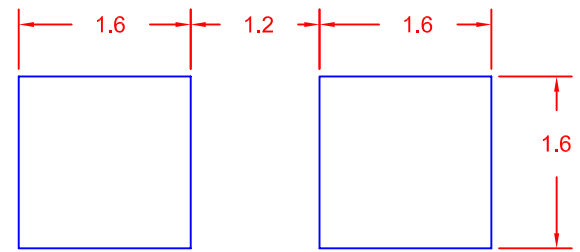
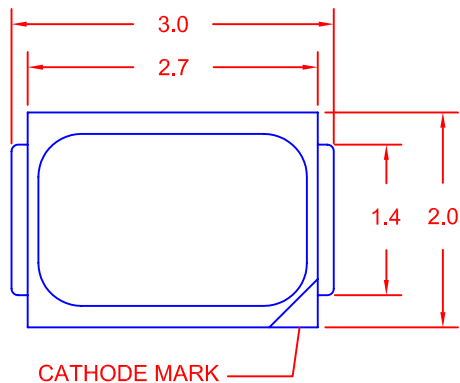




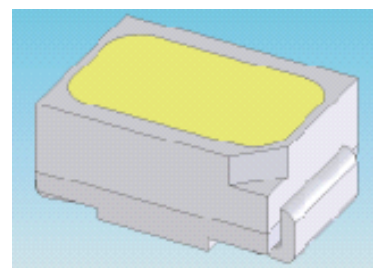
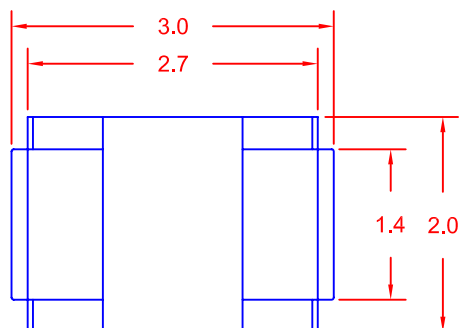
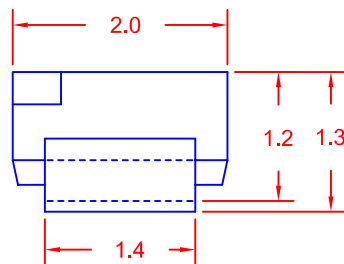
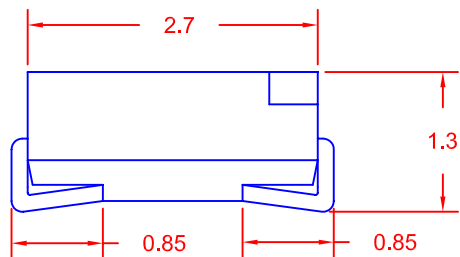
SURFACE MOUNT WHITE LED **TOP VIEW 3.0 X 2.0 X 1.3mm**

FEATURES

TOP VIEW WHITE
 LED (3.0 x 2.0 x 1.3mm)
 WHITE SMT PACKAGE
 LEAD FRAME PACKAGE WITH INDIVIDUAL 2-PINS
 InGaN WITH YELLOW PHOSPHOR
 WIDE VIEW ANGLE (X: 120°/Y: 120°)
 IR REFLOW SOLDERING
 ESD PROTECTION



RECOMMENDED SOLDERING PAD LAYOUT



JKL PART NO.: ZSM-T3020-W





SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS (TA = 25°C)
(LED die)

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Forward Current	I_F	30	mA
Pulse Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	120	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Soldering Temperature	T_{sld}	Reflow Soldering: 260° C for 10 secs Hand Soldering: 350° C for 3 secs	

(Zener diode)

ITEM	SYMBOL	CONDITION	MIN	MAX	UNIT
Reverse Leakage Current	I_R	$V_R = 5V$	---	0.5	uA
Zener Voltage	V_Z	$I_Z = 5mA$	5.8	6.8	V
Forward Voltage	V_F	$I_F = 20mA$	---	1.2	V

* I_{FP} Conditions: Pulse Width $\leq 10msec$, and duty $\leq 1/10$

ELECTRICAL & OPTICAL OPERATING CHARACTERISTICS (TA = 25°C)

ITEM	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 20mA$	2.8	3.6	Volt
Luminous Intensity	L_V	$I_F = 20mA$	1000	1900	mcd
Color Coordinates	x, y	$I_F = 20mA$	.275	.312	x
			.265	.305	y
Viewing Angle	---	$I_F = 20mA$	120° x	120° y	Degrees



SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

BIN RANGE OF CHROMATICITY COORDINATES

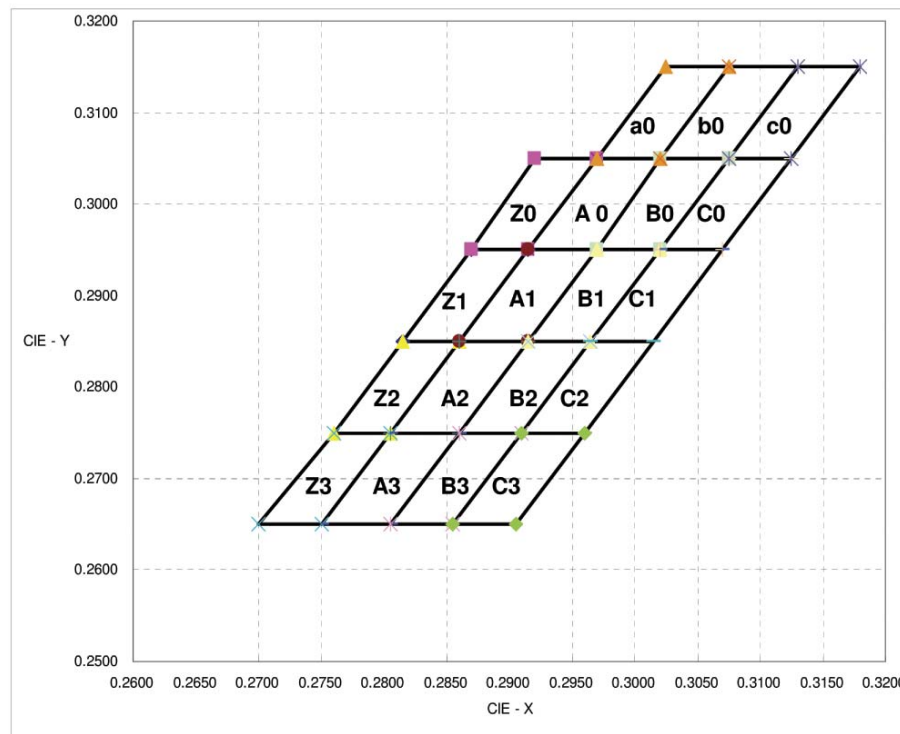
	Z0			
x	0.297	0.2915	0.287	0.292
y	0.305	0.295	0.295	0.305
	Z2			
x	0.286	0.2805	0.276	0.2815
y	0.285	0.275	0.275	0.285
	a0			
x	0.297	0.3025	0.3075	0.302
y	0.305	0.315	0.315	0.305
	A1			
x	0.2915	0.297	0.2915	0.286
y	0.295	0.295	0.285	0.285
	A3			
x	0.2805	0.286	0.2805	0.275
y	0.275	0.275	0.265	0.265
	B0			
x	0.3075	0.302	0.297	0.302
y	0.305	0.295	0.295	0.305
	B2			
x	0.2915	0.2965	0.291	0.286
y	0.285	0.285	0.275	0.275
	c0			
x	0.3075	0.3125	0.318	0.313
y	0.305	0.305	0.315	0.315
	C1			
x	0.302	0.307	0.3015	0.2965
y	0.295	0.295	0.285	0.285
	C3			
x	0.291	0.296	0.2905	0.2855
y	0.275	0.275	0.265	0.265

	Z1			
x	0.2915	0.286	0.2815	0.287
y	0.295	0.285	0.285	0.295
	Z3			
x	0.2805	0.275	0.27	0.276
y	0.275	0.265	0.265	0.275
	A0			
x	0.302	0.297	0.2915	0.297
y	0.305	0.295	0.295	0.305
	A2			
x	0.286	0.2915	0.286	0.2805
y	0.285	0.285	0.275	0.275
	b0			
x	0.302	0.3075	0.313	0.3075
y	0.305	0.305	0.315	0.315
	B1			
x	0.297	0.302	0.2965	0.2915
y	0.295	0.295	0.285	0.285
	B3			
x	0.286	0.291	0.2855	0.2805
y	0.275	0.275	0.265	0.265
	C0			
x	0.3125	0.307	0.302	0.3075
y	0.305	0.295	0.295	0.305
	C2			
x	0.2965	0.3015	0.296	0.291
y	0.285	0.285	0.275	0.275

*If color binning is required, only one color group is allowed for each chip within a reel.

Chromaticity coordinate groups are measured with an accuracy of ± 0.01 .

* Color coordinate is derived from the CIE 1931 chromaticity.

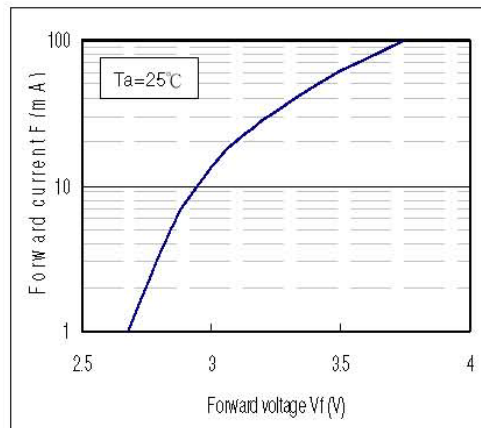




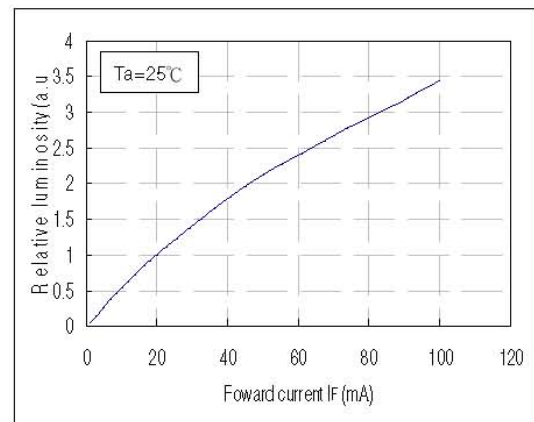
SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

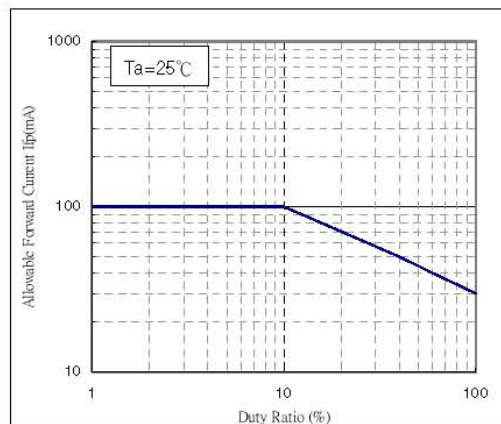
Forward voltage vs. Forward current



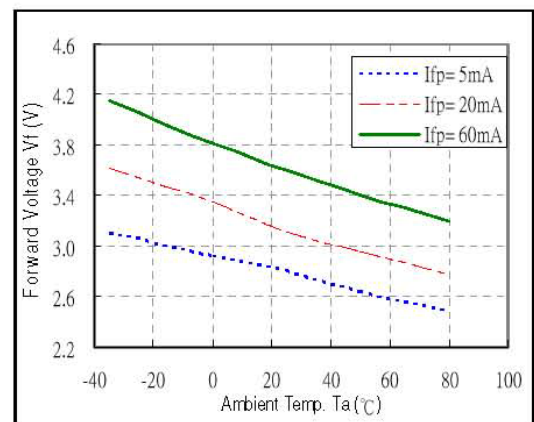
Forward current vs. Relative luminosity



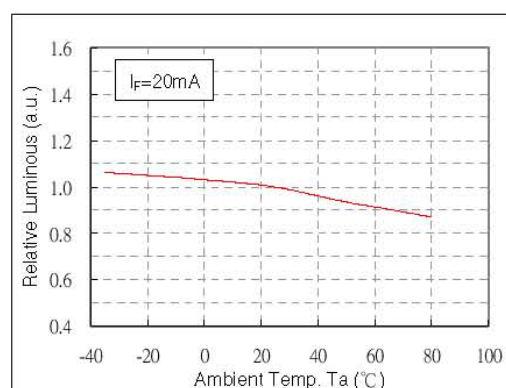
Duty ratio vs. Allowable forward current



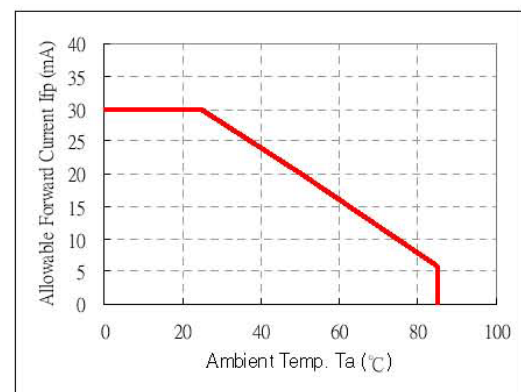
Ambient temperature vs. Forward voltage



Ambient temperature vs. Relative luminosity



Ambient temperature vs. Allowable forward current

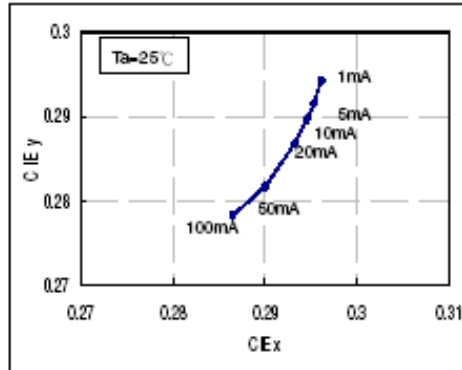




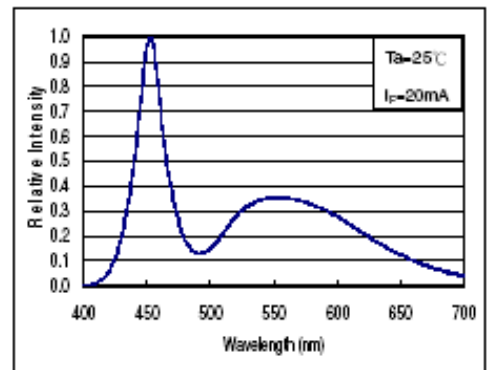
SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)

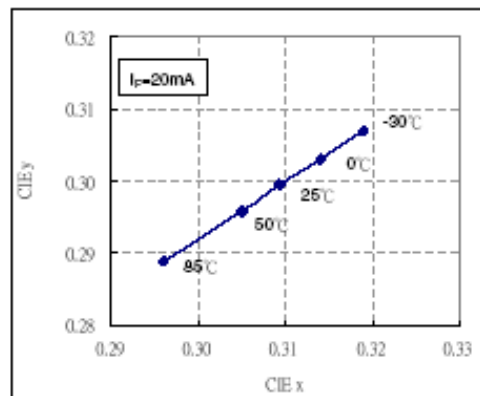
Forward current vs. Chromaticity diagram



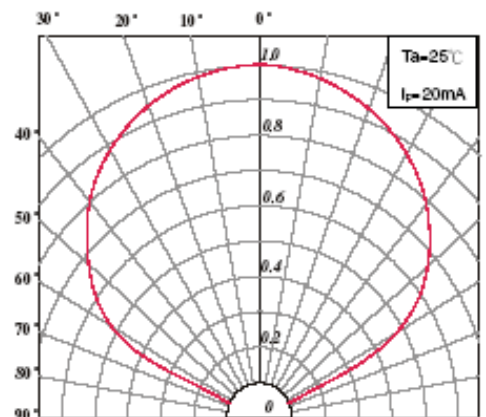
Spectrum



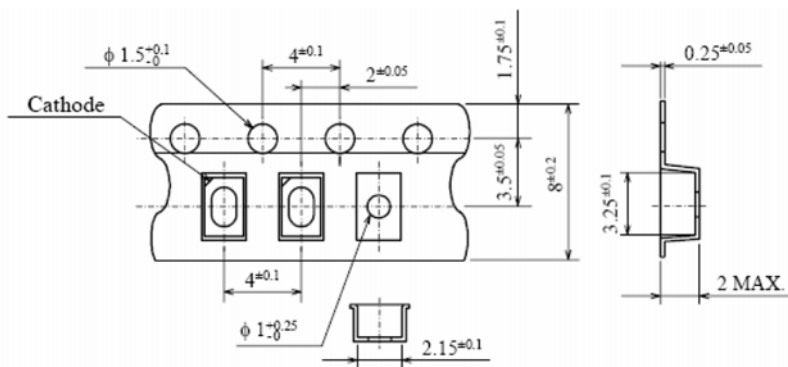
Ambient temperature vs. Chromaticity diagram



Radiation pattern



PACKAGING: 2000 pcs/REEL



NOTES:

1. STORE IN ORIGINAL MOISTURE PROOF PACKAGING.
2. PACKAGING SHOULD BE STORED AT 30°C OR LESS AND AT 60% RH OR LESS.
3. LED SHOULD BE SOLDERED WITHIN 168 HOURS AFTER OPENING.
4. LED'S ARE STATIC SENSITIVE DEVICES. DO NOT HANDLE WITHOUT APPROPRIATE STATIC PROTECTION.
5. CLEAN ONLY WITH ISOPROPYL ALCOHOL. DO NOT USE ULTRASONIC CLEANING.
6. **CAUTION:** DO NOT LOOK DIRECTLY INTO LIT LED. INJURY TO EYES CAN OCCUR.

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com