



A Product Line of  
Diodes Incorporated



# SPECIFICATION FOR APPROVAL

CUSTOMER	_____
NOMINAL FREQUENCY	<b>14.318000 MHz</b>
PRODUCT TYPE	<b>TYPE FX 6.0x3.5 SEAM SEALED CRYSTAL</b>
PART NUMBER	<b>FX1430025</b>
CUSTOMER P/N	_____
ISSUE DATE	<b>June 6, 2018</b>
VERSION	<b>B</b>

APPROVED	PREPARED	QA
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## Diodes Incorporated

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\*Pb-free  
\*RoHS Compliant  
\*HF-Halogen Free  
\*REACH Compliant

# TYPE FX 6.0x3.5 SEAM SEALED CRYSTAL

## FX1430025

VER.B 06-JUN-18

### ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	14.318000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	18	pF	
Calibration Tolerance	FL	$\pm 30$	ppm	at 25°C $\pm 3^{\circ}\text{C}$
Operating Temperature Range	TR	-20 to +70	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	$\pm 30$	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	$\mu\text{W}$	
Maximum Drive Level		100	$\mu\text{W}$	
Equivalent Series Resistance	ESR	50	$\Omega$	Max.
Shunt Capacitance	C0	5	pF	Max.
Aging at 25°C		$\pm 5$	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	M $\Omega$	Min

\*\* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

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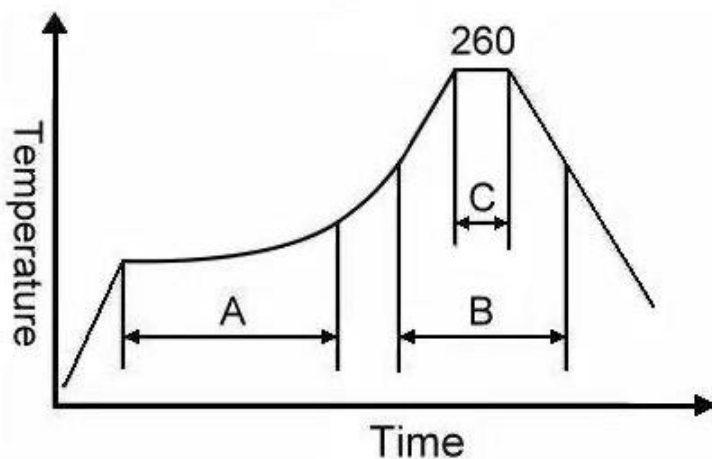
## RELIABILITY SPECIFICATIONS

### MECHANICAL AND ENVIRONMENTAL RATINGS:

- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

## SUGGESTED IR REFLOW PROFILE

\*As per IPC-JEDEC J-STD-020D



Note:

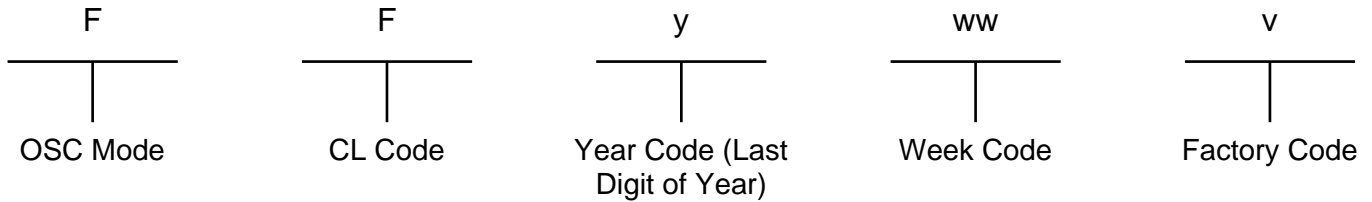
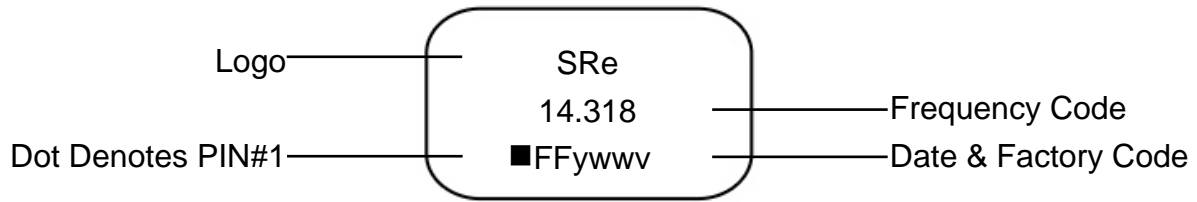
	Stage	Temperature	Time
A	Preheat	150~200°C	60~120 Sec
B	Primary Heat	217°C	60~150 Sec
C	Peak	260°C	10 Sec

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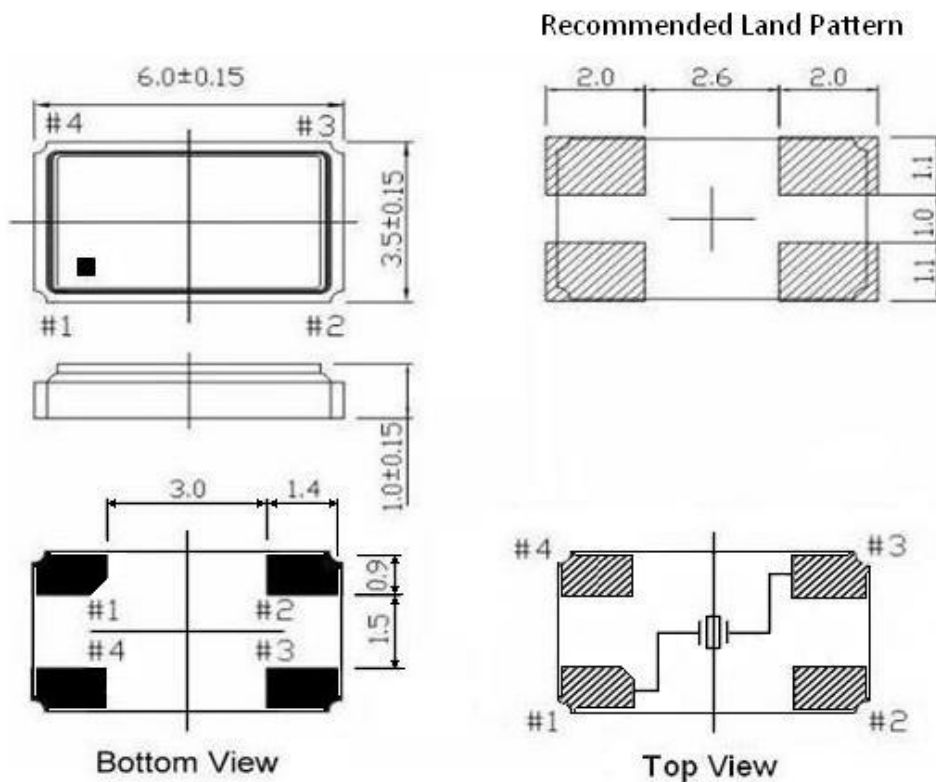
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## MARKING



## MECHANICAL DRAWINGS ( Scale: None. Dimensions are in mm.)



**\*\* Recommended - Pin 1 & 3 : CRYSTAL  
 Pin 2 & 4 : GND**

### Notes:

1. Package drawings are for reference only, and the appearances of objects may vary. Actual packages are based on the real product.
2. The marking dot denotes Pin#1.
3. The position and shape of the chamfer pin may vary and are based on the real product.

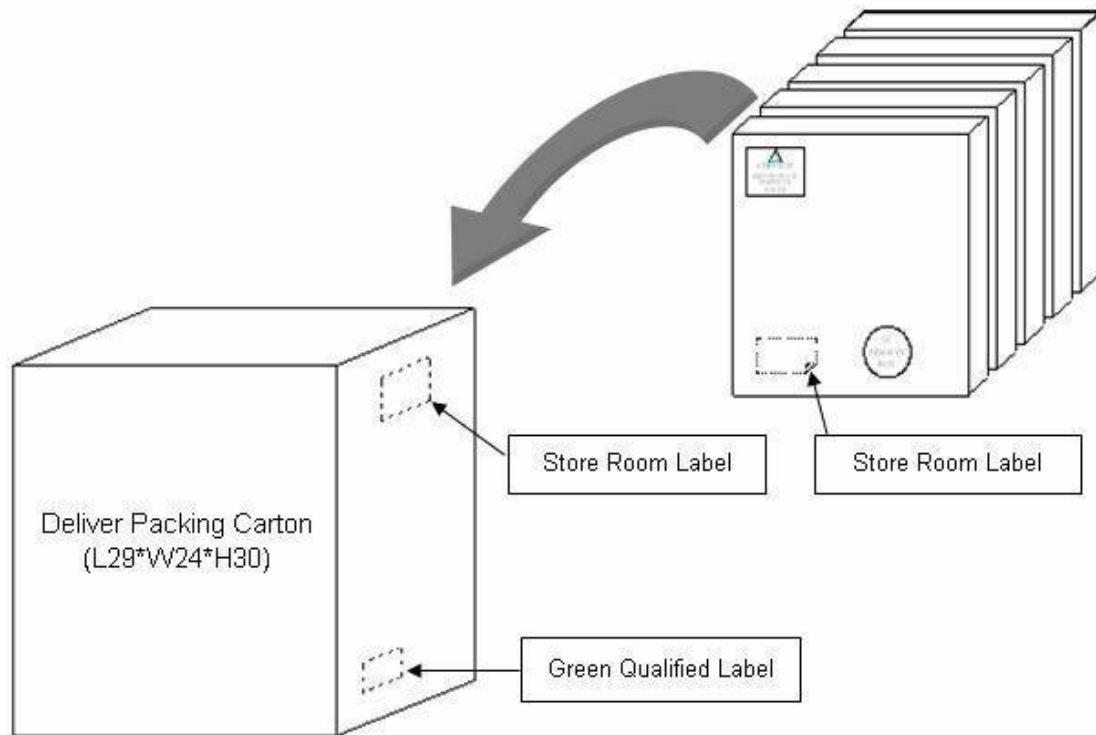
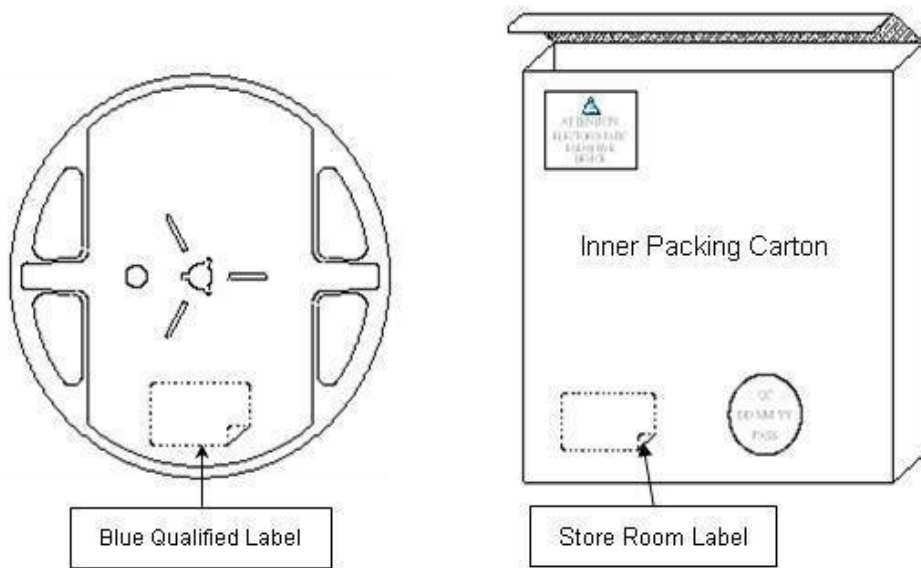
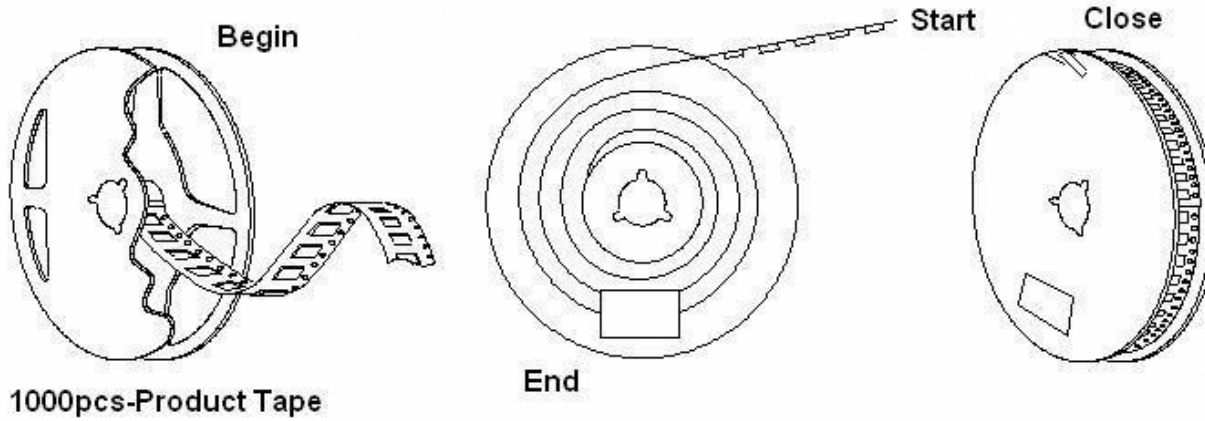


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### PACKING



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***FX1430025***

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## VERSION HISTORY

Version No.	Version Date	Description	Notes
A	May. 10, 2011	Initial Release	
B	Jun. 6, 2018	Updated Logo	