

**ISSUE DATE** 

VERSION

May 31, 2018

В

APPROVED	PREPARED	QA
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### **Diodes Incorporated**

No.2, Ziqiang 5th Rd., Zhongli Industrial Park, Zhongli Dist., Taoyuan City 32063, Taiwan (R.O.C.) TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com \*Pb-free

\*RoHS Compliant

- \*HF-Halogen Free \*REACH Compliant
- \*AEC-Q200 Compliant

# FY2450034Q

VER. B 31-May-18

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# **VERSION HISTORY**

Version No.	Version Date	Description	Notes
А	Mar.7,2013	Initial Release	
В	May.31,2018	Updated logo	



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### **ELECTRICAL SPECIFICATIONS**

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	24.576000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	20	pF	
Calibration Tolerance	FL	±20	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +85	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±20	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	60	Ω	Max
Shunt Capacitance	C0	5	pF	Мах
Aging at 25°C		±3	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	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).



## FY2450034Q

#### **AEC-Q200 RELIABILITY TEST SPECIFICATIONS:**

#### 1. Initial

- 1.1 Physical Dimensions: JESD22, Method JB1-100
- 1.2 External Visual: MIL-STD-883, Method 2009
- 1.3 Freq. Vs. Temperature: Per Specification/Datasheet

#### 2. Mechanical

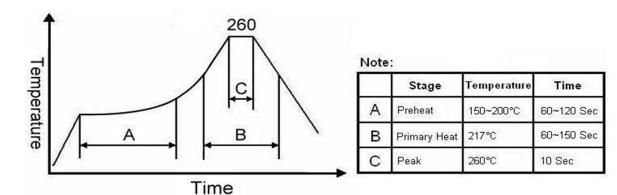
- 2.1 Mechanical Shock: MIL-STD-202 Method 213
- 2.2 Vibration: MIL-STD-202 Method 204
- 2.3 Solderability: J-STD-002
- 2.4 Board Flex: AEC Q200-005
- 2.5 Terminal Strength (SMD): AEC Q200-006

#### 3.Environmental

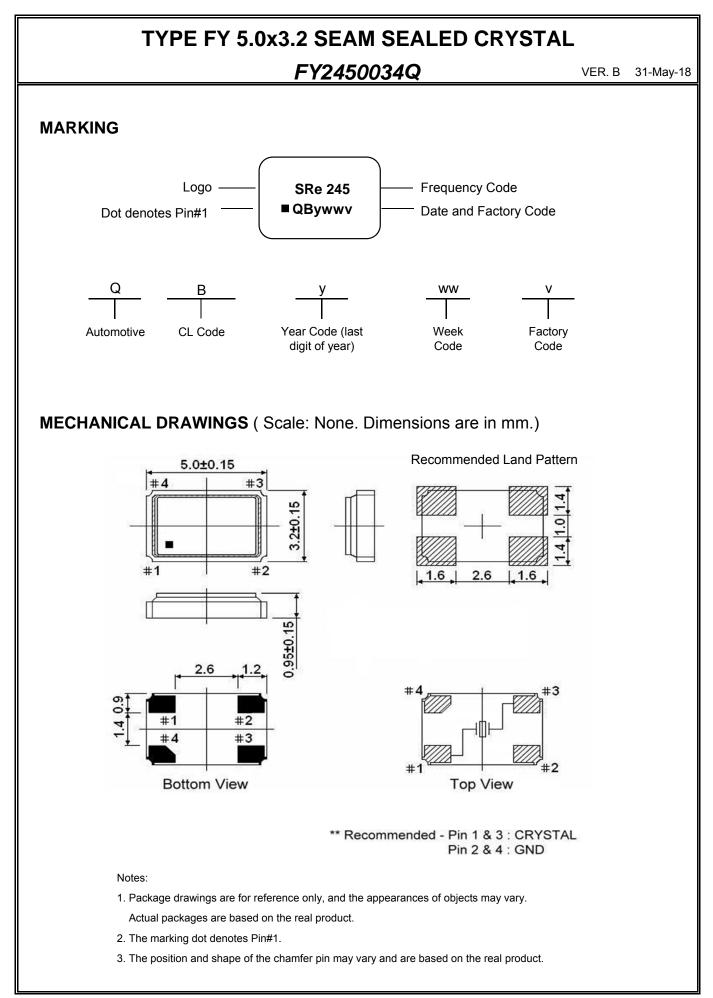
- 3.1 Temp Cycle: JESD22, Method JA-104
- 3.2 Resistance to Solder Heat: MIL-STD-202 Method 210
- 3.3 High Temperature Operating Life: MIL-STD-202, Method 108
- 3.4 High Temp Exposure: MIL-STD-202, Method 108
- 3.5 High Temp & High Humidity: MIL-STD-202, Method 103
- 3.6 Thermal Shock: MIL-STD-202, Method 107

### SUGGESTED IR REFLOW PROFILE

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





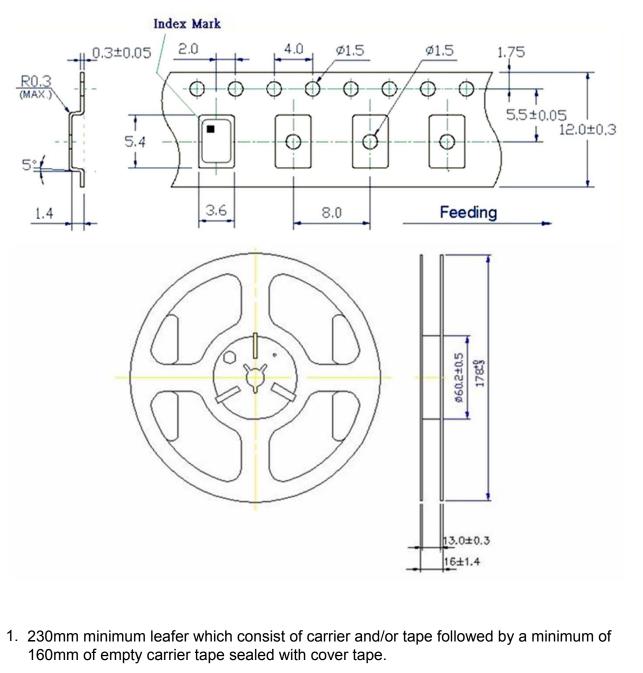




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Tape & Reel



2. 160mm minimum trailer of empty carrier tape sealed with cover tape.



