

PHASE CONTROL THYRISTORS

- **Junction Size:** 30 mm Diameter
- **V_{RRM} Class:** 400 to 1400 V
- **Passivation Process:** Diffused Junction
- **Reference IR Packaged Part:** ST330C..C Series

Major Ratings and Characteristics

Parameters	Units	Test Conditions
V _{TM} Maximum On-state Voltage	1.96 V	T _J = 125°C, I _T = 1810 A
V _{RRM} Reverse Breakdown Voltage Range	400 to 1400 V	T _J = 125°C, I _{RRM} = 50 mA
I _{GT} Max. Required DC Gate Current to Trigger	200 mA	T _J = 25°C
V _{GT} Max. Required DC Gate Voltage to Trigger	3.0 V	T _J = 25°C
I _H Maximum Holding Current	600 mA	T _J = 25°C, anode supply 12 V resistive load
I _L Typical Latching Current	1000 mA	T _J = 25°C, anode supply 12 V resistive load

Mechanical Characteristics

Nominal Back Metal Composition	Al - Ni - Au (100KA - 7KA - 4KA)
Nominal Front Metal Composition	Nickel plate molybdenum disc
Chip Dimensions	30 mm diameter (see drawing)
Recommended Storage Environment	Storage in original container, in dessicated nitrogen, with no contamination

IR30CSR..L SERIES



Ordering Information Table

Device Code

IR	30	C	S	R	14	L
①	②	③	④	⑤	⑥	⑦

- 1** - International Rectifier device
- 2** - Chip Dimension in Millimeters
- 3** - Device identifier between chip with same diameter
- 4** - Type of Device: S = Converter Type Thyristor
- 5** - Passivation: R = Rubber for all junctions
- 6** - Voltage code: Code x 100 = V_{RRM}
- 7** - Metallization: L = Nickel plate Molybdenum disc (Anode)
Al - Ni - Au (Cathode)

Available Class

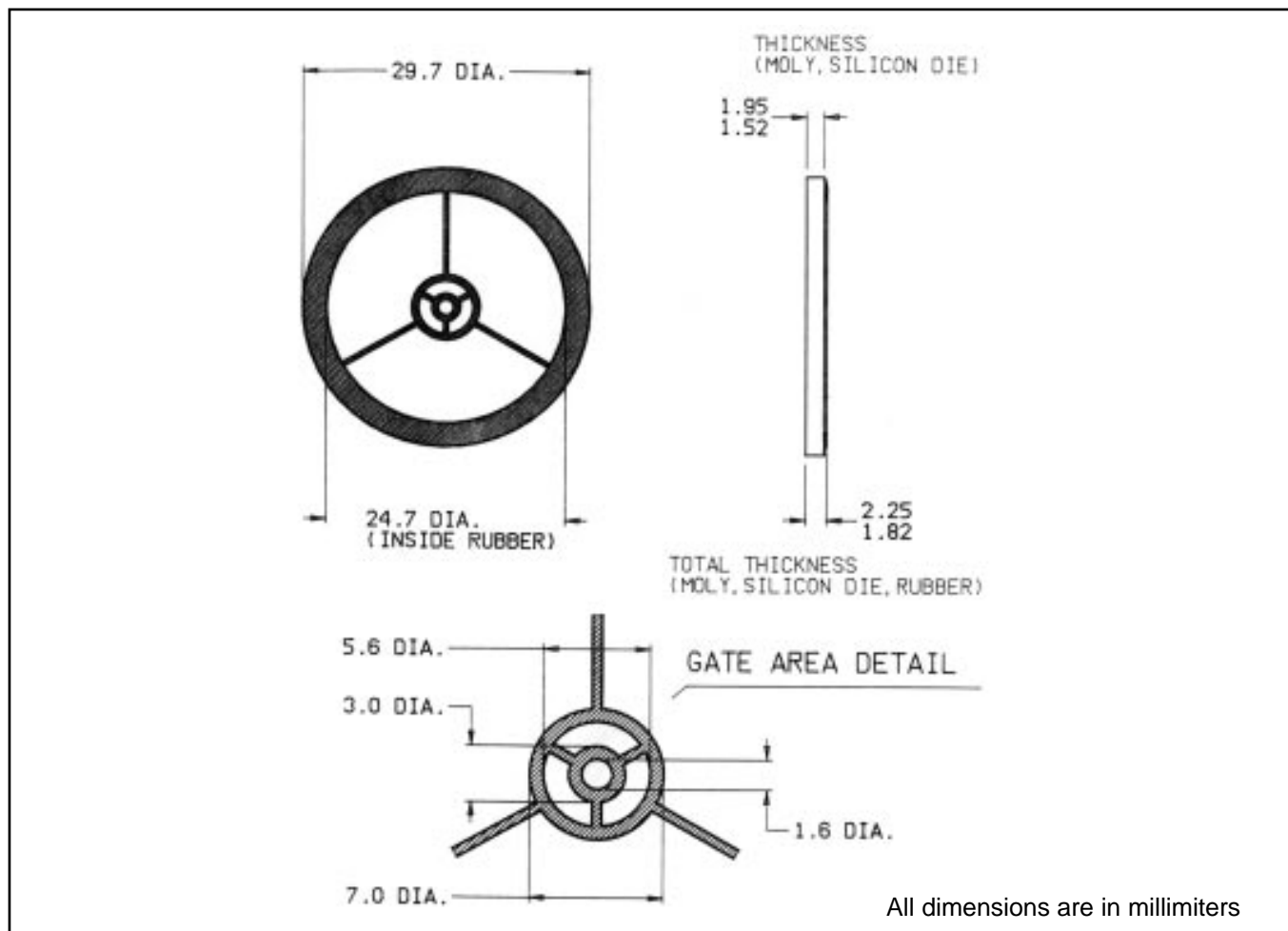
04 = 400 V

08 = 800 V

12 = 1200 V

14 = 1400 V

Outline Table





Notice

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