International
IOR Rectifier

IR155BG12DCB

PHASE CONTROL THYRISTORS

- **Junction Size:** **Square 155 mils**
- **Wafer Size:** **4"**
- **V_{RRM} Class:** **1200 V**
- **Passivation Process:** **Glassivated MESA**
- **Reference IR Packaged Part:** **16TTS Series**

Major Ratings and Characteristics

Parameters		Units	Test Conditions
V_{TM}	Maximum On-state Voltage	1.4 V	T_J = 25°C, I_T = 10 A
V_{RRM}	Reverse Breakdown Voltage	1200 V	T_J = 25°C, I_{RRM} = 100 µA **(1)**
I_{GT}	Max. Required DC Gate Current to Trigger	60 mA	T_J = 25° C, anode supply = 6 V, resistive load
V_{GT}	Max. Required DC Gate Voltage to Trigger	2 V	T_J = 25° C, anode supply = 6 V, resistive load
I_H	Holding Current Range	5 to 100 mA	Anode supply = 6 V, resistive load
I_L	Maximum Latching Current	200 mA	Anode supply = 6 V, resistive load

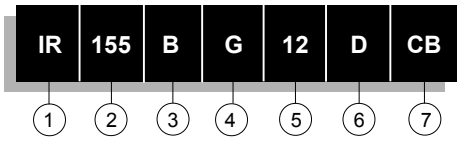
(1) Nitrogen flow on die edge.

Mechanical Characteristics

Nominal Back Metal Composition, Thickness	Cr - Ni - Ag (1 KA - 4 KA - 6 KA)
Nominal Front Metal Composition, Thickness	100% Al, (20µm)
Chip Dimensions	155 x 155 mils (see drawing)
Wafer Diameter	100 mm, with std. <110> flat
Wafer Thickness	350 µm ± 10 µm
Maximum Width of Sawing Line	130 µm
Reject Ink Dot Size	0.25 mm diameter minimum
Ink Dot Location	See drawing
Recommended Storage Environment	Storage in original container, in dessicated nitrogen, with no contamination

Ordering Information Table

Device Code



1 - International Rectifier Device

2 - Chip Dimension in Mils

3 - Type of Device: B = Wire Bondable SCR

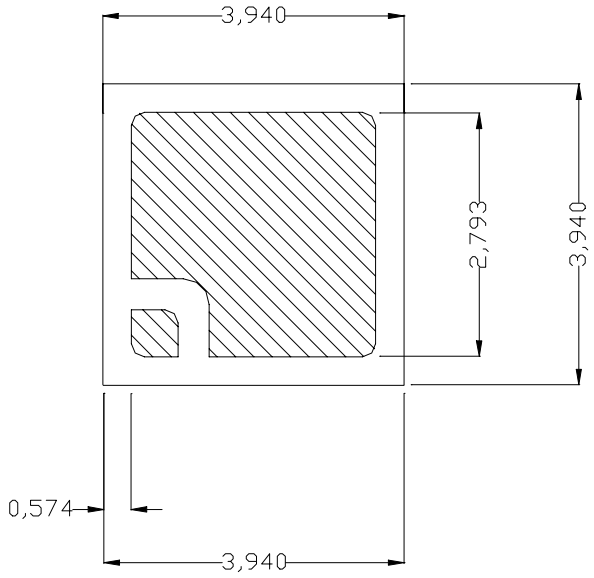
4 - Passivation Process: G = Glassivated MESA

5 - Voltage code: Code x 100 = V_{RRM}

6 - Metallization: D = Silver (Anode) - Aluminium (Cathode)

7 - CB = Probed Uncut Die (wafer in box)
None = Probed Die in chip carrier

Outline Table



All dimensions are in millimeters

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