

PHASE CONTROL THYRISTORS

- Junction Size : Square 250 mils - IR255SG12H/ S1232
- Wafer Size : 4"
- V_{RRM} Class : 1200 V
- Passivation Process : Glassivated MESA
- Reference IR Packaged Part : n. a.

Major Ratings and Characteristics

Parameters	Units	Test Conditions
V_{TM} Typical On-state Voltage	1.25V	$T_J = 25^\circ\text{C}$, $I_T = 25\text{ A}$
V_{DRM}/V_{RRM} Direct and Reverse Breakdown Voltage	1200V	$T_J = 25^\circ\text{C}$, $I_{DRM}/I_{RRM} = 100\mu\text{A}$ (1)
I_{GT} Required DC Gate Current to Trigger	5 to 80 mA	$T_J = 25^\circ\text{C}$, anode supply = 6V, resistive load
V_{GT} Max. Required DC Gate Voltage to Trigger	2 V	$T_J = 25^\circ\text{C}$, anode supply = 6V, resistive load
I_H Holding Current Range	5 to 100 mA	Anode supply = 6V, resistive load
I_L Maximum Latching Current	300mA	Anode supply = 6V, resistive load

(1) Nitrogen flow on die edge.

Mechanical Characteristics

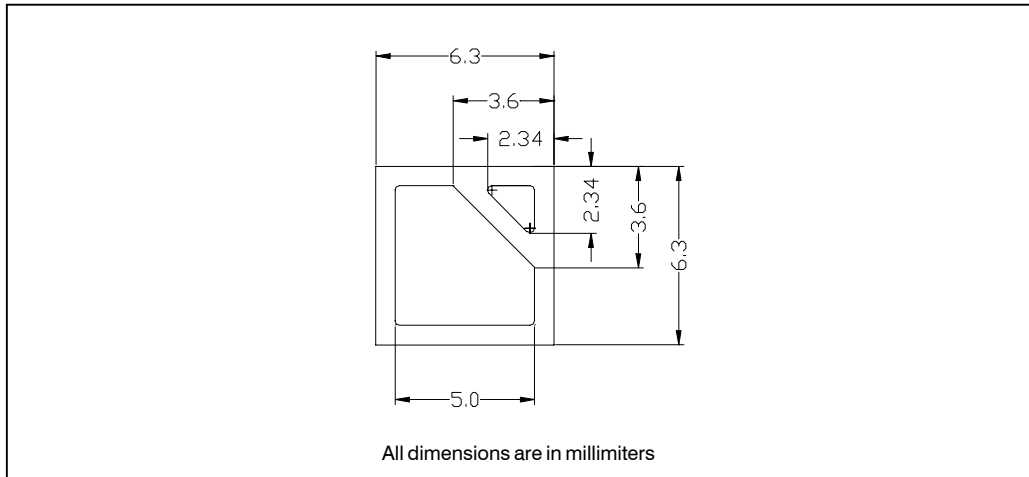
Nominal Back Metal Composition, Thickness	Cr - Ni - Ag (1 KA - 4 KA - 15 KA)
Nominal Front Metal Composition, Thickness	Cr - Ni - Ag (1 KA - 4 KA - 15 KA)
Chip Dimensions	250x250mils (see drawing)
Wafer Diameter	100mm, with std. < 110 > flat
Wafer Thickness	330 $\mu\text{m} \pm 10\mu\text{m}$
Maximum Width of Sawing Line	130 μm
Reject Ink Dot Size	0.25mm diameter minimum
Ink Dot Location	See drawing
Recommended Storage Environment	Storage in original container, in dessicated nitrogen, with no contamination

S1232

Bulletin I0141J 01/01

International
IR Rectifier

Outline Table



Wafer Layout

