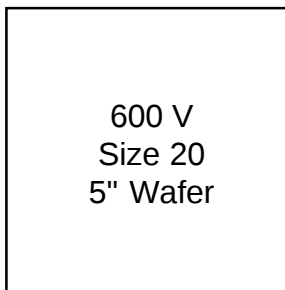


Hexfred Die in Wafer Form



Electrical Characteristics (Wafer Form)

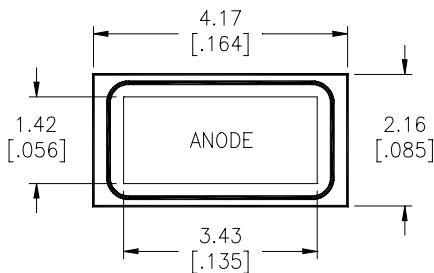
Parameter	Description	Guaranteed (Min/Max)	Test Conditions
V_{FM}	Forward Voltage	1.7V Max.	$T_J = 25^{\circ}C$, $I_F = 12.0A$
BV_R	Reverse Breakdown Voltage	600V Min.	$T_J = 25^{\circ}C$, $I_R = 200\mu A$
I_{RM}	Reverse Leakage Current	10 μA Max.	$T_J = 25^{\circ}C$, $V_R = 600V$

Mechanical Data

Nominal Back Metal Composition, Thickness	Cr-Ni-Ag (1kA-4kA-6kA)
Nominal Front Metal Composition, Thickness	99% Al, 1% Si (3 microns)
Chip Dimensions	0.085" x 0.164"
Wafer Diameter	125mm, with std. < 100 > flat
Wafer Thickness	.015" $\pm$.003"
Relevant Die Mechanical Dwg. Number	01-5160
Minimum Street Width	100 Microns
Reject Ink Dot Size	0.25mm Diameter Minimum
Recommended Storage Environment:	Store in original container, in dessicated nitrogen, with no contamination

Reference Standard IR packaged part (for design) : IRGBC30MD2

Die Outline



NOTES:

- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES)
- CONTROLLING DIMENSION : (INCH)
- DIMENSIONAL TOLERANCES:
 BONDING PADS : <0.635 TOLERANCE = ± 0.013
 WIDTH <(.0250) TOLERANCE = $\pm (.0005)$
 & >0.635 TOLERANCE = ± 0.025
 LENGTH >(.0250) TOLERANCE = $\pm (.0010)$
 OVERALLDIE <1.270 TOLERANCE = ± 0.102
 WIDTH <(.050) TOLERANCE = $\pm (.004)$
 & >1.270 TOLERANCE = ± 0.203
 LENGTH >(.050) TOLERANCE = $\pm (.008)$