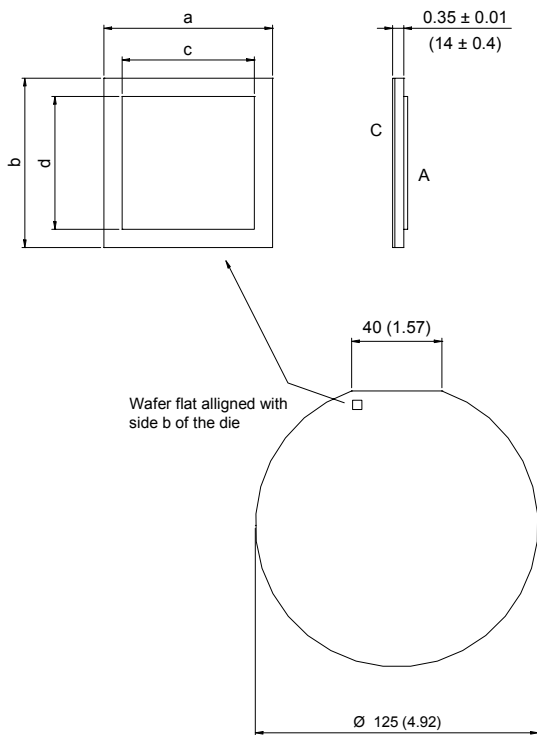


Fred Die in Wafer Form



NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (MILS).
2. CONTROLLING DIMENSION (MILS):
3. DIMENSIONS AND TOLERANCES:
 - $a = 1.905 + 0, -0.01$
(75 + 0, -04)
 - $b = 1.905 + 0, -0.01$
(75 + 0, -04)
 - $c = 1.199 + 0, -0.01$
(47.2 + 0, -04)
 - $d = 1.199 + 0, -0.01$
(47.2 + 0, -04)
4. LETTER DESIGNATION:
 - A = Anode (Top Metal)
 - C = Cathode (Back Metal)
5. SAWING:
 - Recommended Blade
 - SEMITEC S1025 QS00 Blade
 - Sawing Street
 - $0.05 + 0, -0.005$
 - (2 + 0, -0.2)

NOT TO SCALE

Electrical Characteristics (Wafer Form)

Parameters	Units	Test Conditions
V_{FM} Typical Forward Voltage	1.5 V	$T_J = 25^\circ\text{C}$, $I_F = 3\text{ A}$
V_{RRM} Minimum Reverse Breakdown Voltage	600 V	$T_J = 25^\circ\text{C}$, $I_{RRM} = 100\ \mu\text{A}$
I_{RM} Max. Reverse Leakage Current	50 μA	$T_J = 25^\circ\text{C}$, $V_{RRM} = 600\text{ V}$
t_{rr} Typ. Reverse Recovery Time	27 ns	$I_F = 1\text{ A}$, $di/dt = 100\text{ A}/\mu\text{s}$, $V_R = 30\text{ V}$

Mechanical Data

Nominal Back Metal Composition, Thickness	Cr - Ni - Ag (1 KA - 2 KA - 3 KA)
Nominal Front Metal Composition, Thickness	99% Al, 1% Si (3 microns)
Chip Dimensions	0.160" x 0.160" (see drawing)
Reject Ink Dot Size	0.25 mm diameter minimum
Recommended Storage Environment	Storage in original container, in desiccated nitrogen, with no contamination

Packaging

Device #	Description	Minimum Order Quantity Die in Sale Package
FD075xxx5 B	Inked Probed Unsawn Wafer (Wafer in Box)	2500
FD075xxx5 R	Probed Die in Tape & Reel	n/a
FD075xxx5 P	Probed Die in Waffle Pack	2500
FD075xxx5 F	Inked Probed Sawn Wafer on Film	2500

Ordering Information Table

Device Code	
FD	075
H	06
A	5
B	
①	②
③	④
⑤	⑥
⑦	

<p>1 - Fred Die</p> <p>2 - Chip Dimension in Mils: 075 = 75 x 75 square</p> <p>3 - Process: H = HyperFast</p> <p>4 - Voltage code Vrrm (*100) eg: 06 = 600V</p> <p>5 - Chip surface metallization: A = Aluminium (anode), Silver (cathode)</p> <p>6 - Wafer diameter in inches</p> <p>7 - Packaging (B = inked Probed Unsawn Wafers)</p>

Data and specifications subject to change without notice.
 This product has been designed and qualified for Industrial Level.
 Qualification Standards can be found on IR's Web site.