

New E-series high-power sonic fast recovery diodes

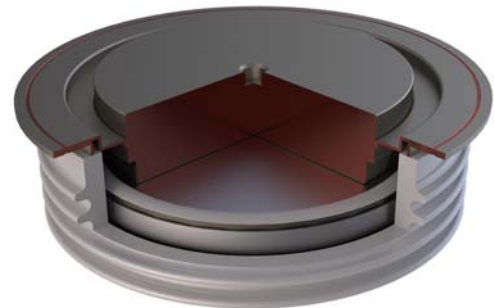
IXYS UK brings you a world-leading class of ultra fast and ultra soft recovery diode available from 2.5kV to 6.5kV in current ratings from 170 to 4000A.

Newly added to this range are the 4.5kV E-series diodes incorporating the latest silicon bonding technology for improved thermal characteristics and improved reliability.

These diodes incorporate a unique manufacturing process and lifetime control to offer a class leading trade-off between conduction and switching losses. The wide safe operating area (SOA) makes them ideal as freewheeling diodes for snubberless IGBT and IGCT applications. In fact, any application which requires a fast, low loss diode. For example, traction, medium voltage drives, induction heating and pulsed power applications.

Features

- Robust dynamic characteristics – $di/dt > 4000A/\mu s$
- Up to 150°C operating junction temperature
- Soft fast recovery – no snap off
- Low recovery losses, low forward voltage drop
- Snubberless operation

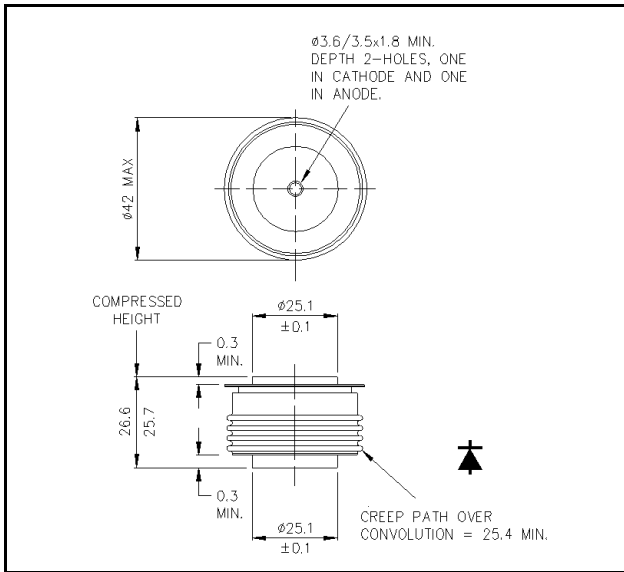


Applications

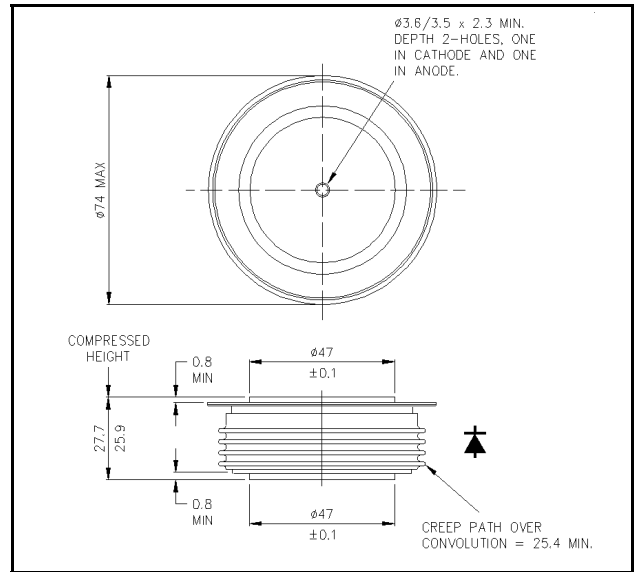
- Anti-parallel diodes of IGBT's and IGCT's
- Clamp and snubber diodes
- Any application which requires a fast low loss diode
- Ideally suited for:
 - Traction
 - Medium voltage drives
 - Renewables
 - Induction heating
 - Pulsed power applications



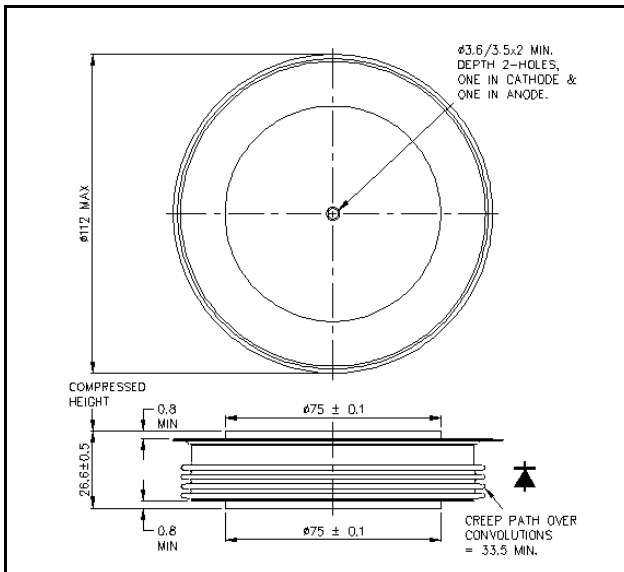
W3—100A317



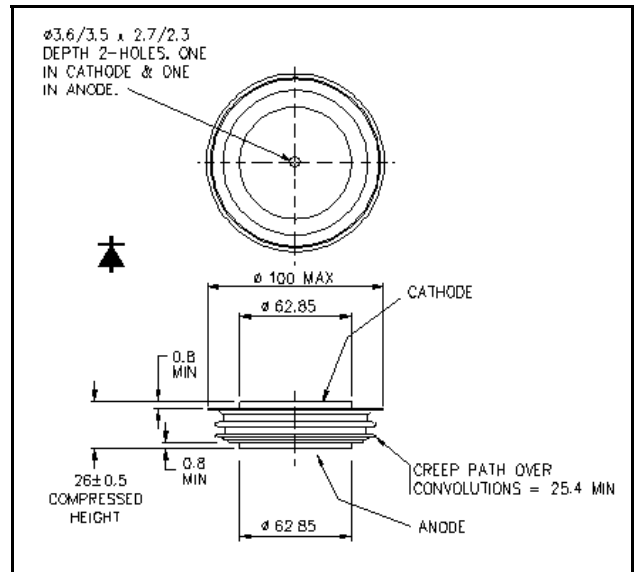
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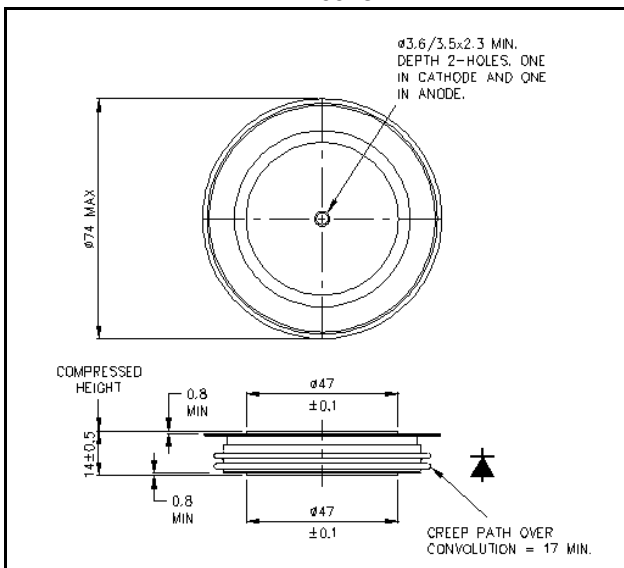
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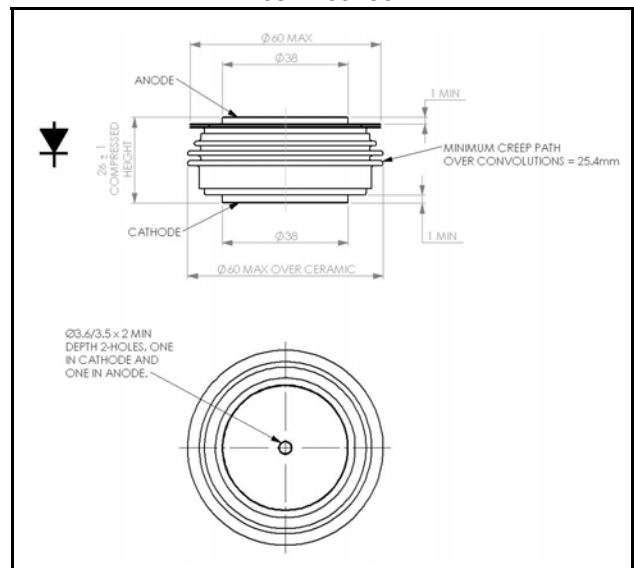
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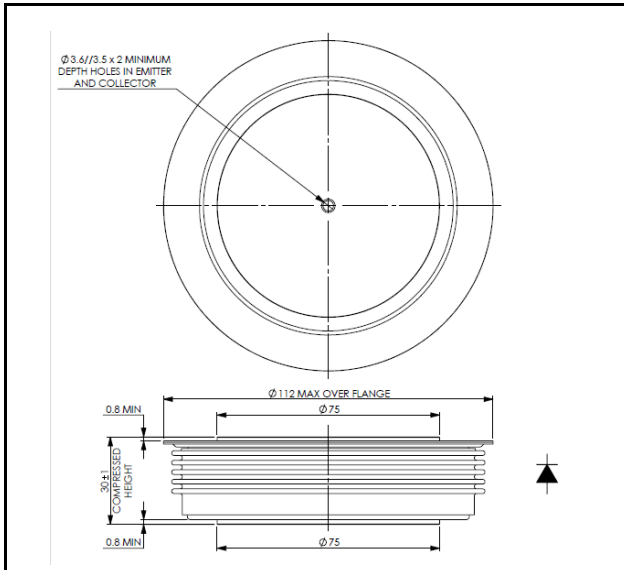
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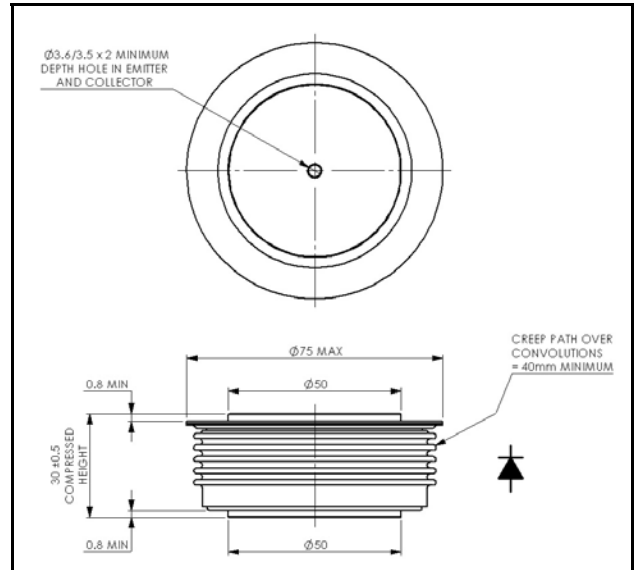
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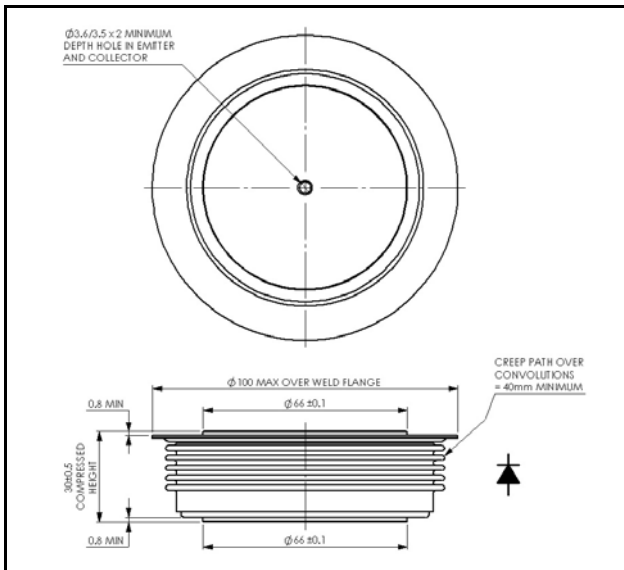
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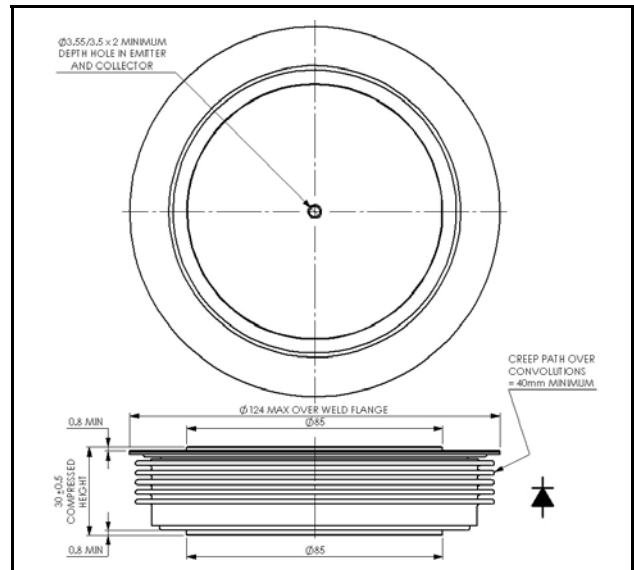
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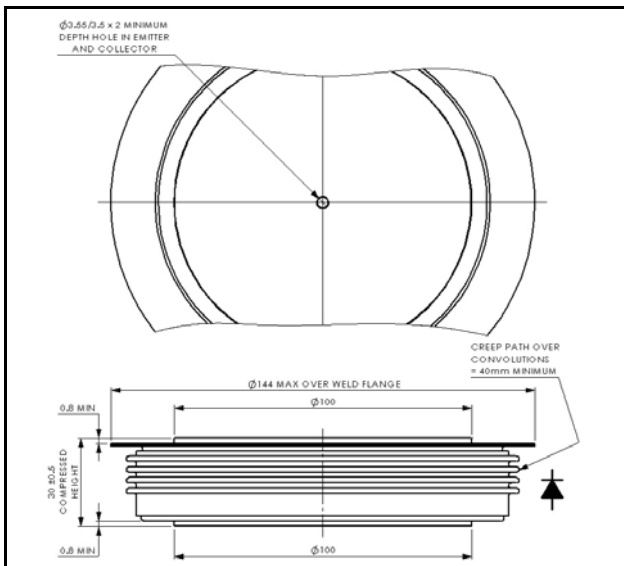
W100—100A384



W101—100A380



W105—100A385



W111—100A378

