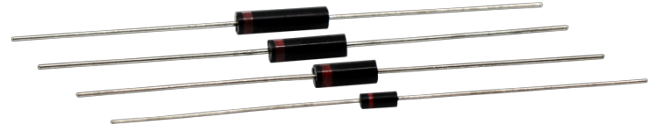


# XGA04

4KV, 110 mA  
Fast Recovery  
High Voltage Diode

## Features

- High voltage, higher current diode in small form factor
- Molded plastic body, ANSI/UL94 V-0 rated material
- Uses new Dean Technology, XOE Technology
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.



| DEVICE ELECTRICAL CHARACTERISTICS*                  | Conditions                                              | Symbol         | Value                              |
|-----------------------------------------------------|---------------------------------------------------------|----------------|------------------------------------|
| Maximum Repetitive Peak Reverse Voltage             | -                                                       | $V_{RRM}$      | 4,000 Volts                        |
| Average Forward Current Maximum                     | $T_{AIR} = 55^{\circ}C$                                 | $I_{FAVM}$     | 110 mA                             |
| Average Forward Current Maximum                     | $T_{OIL} = 55^{\circ}C$                                 | $I_{FAVM}$     | 220 mA                             |
| Maximum Forward Voltage Drop                        | $I_F = I_{FAVM(oil)}, t_{PW} = 100\mu sec$              | $V_F$          | 10.4 Volts                         |
| Typical Thermal Resistance<br>(junction to ambient) | In Air                                                  | $R\theta_{JA}$ | 112 $^{\circ}C/W$                  |
| Maximum Surge Current Rating                        | 8.3msec, Half Sine                                      | $I_{FSM}$      | 5 Amps                             |
| Maximum Reverse Current                             | at rated $V_{RRM}$                                      | $I_R$          | 0.2 $\mu A$                        |
| Maximum Reverse Recovery Time                       | $I_F = 0.5I_R; I_R = -I_{FAVM(oil)}; I_{RR} = -0.25I_R$ | $T_{RR}$       | 70 ns                              |
| Maximum Reverse Energy Withstand                    | -                                                       | $E_{RSM}$      | 40 mJ                              |
| Typical Junction Capacitance                        | $f = 1Mhz, V_R = 0 V_{DC}$                              | $C_j$          | 3.7 pF                             |
| Maximum Junction Temperature                        | -                                                       | $T_J$          | 125 $^{\circ}C$                    |
| Storage Temperature Range                           | -                                                       | $T_{STG}$      | -55 $^{\circ}C$ to 175 $^{\circ}C$ |

(\*Note: 25 $^{\circ}C$  ambient temperature unless stated otherwise.)

| MECHANICAL DATA |          | Min. |      | Max.  |     |
|-----------------|----------|------|------|-------|-----|
|                 |          | in.  | mm   | in.   | mm  |
| Body Length     | <b>L</b> | -    | -    | 0.195 | 49  |
| Body Diameter   | <b>D</b> | -    | -    | 0.08  | 2.0 |
| Lead Length     | <b>l</b> | 1.0  | 25.4 | -     | -   |
| Lead Diameter   | <b>d</b> | -    | -    | 0.020 | 0.5 |

