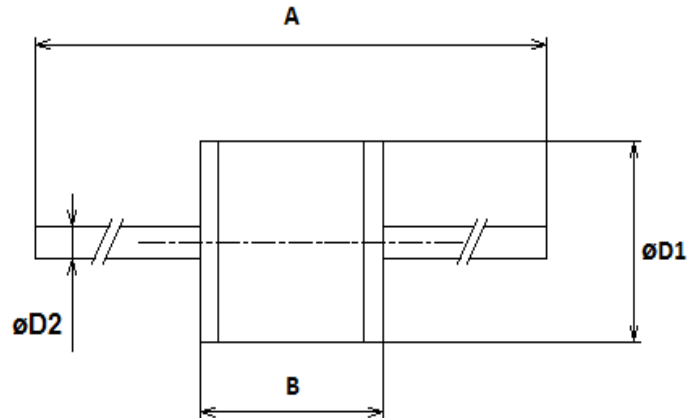


## Specification Status: Released

**Marking:**

XX 60 R 05 HB

- Week of Manufacture  
Per Manufacturer's Lot numbering system  
Eg. H = Second half of 2004; B = wee
- Surge Rating  
05: 5kA
- Product Family
- Voltage Designator  
60: 600V
- Manufacturer's Mark



**TABLE I. DIMENSIONS**

|     | A      |        | B      |        | D1     |        | D2      |
|-----|--------|--------|--------|--------|--------|--------|---------|
|     | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | NOM     |
| mm  | 56.0   | 64.0   | 4.8    | 5.2    | 4.8    | 5.2    | 0.8     |
| in* | (2.20) | (2.52) | (0.19) | (0.20) | (0.19) | (0.20) | (0.032) |

\*Rounded off approximation

**TABLE II. ELECTRICAL CHARACTERISTICS**

| DC Sparkover Voltage* | Impulse Sparkover Voltage <sup>(1)</sup> |                 | Insulation Resistance   | Capacitance | AC Discharge Current, 50 Hz          | Impulse Discharge Current 10/1000 $\mu$ s | Impulse Discharge Current, 8/20 $\mu$ s |
|-----------------------|------------------------------------------|-----------------|-------------------------|-------------|--------------------------------------|-------------------------------------------|-----------------------------------------|
|                       | @100V/ $\mu$ s                           | @1000V/ $\mu$ s |                         |             |                                      |                                           |                                         |
| @ 100V/s              | @100V/ $\mu$ s                           | @1000V/ $\mu$ s | @250V <sub>DC</sub>     | @1MHz       | Multiple Hits (1s duration: 10 hits) | 300 hits (150hits for each polarity)      | 10 hits (5hits for each polarity)       |
| 600V $\pm$ 15%        | 950V                                     | 1100V           | $\geq$ 10,000M $\Omega$ | <1.0pF      | 5Arms                                | 100A                                      | 5kA                                     |

\*In ionized mode

Testing methods and specifications referring to ITU-T K.12

Impulse Sparkover Voltage is defined as typical values of distribution.

**General Characteristics:**

No Radioactive Materials

Storage temperature: -40°C ... +90°C

Operating temperature: -40°C ... +90°C

Electrode: Ni Plating

Lead Material: Tin Plated



Expertise Applied | Answers Delivered

# Gas Discharge Tube

## Over-Voltage Protection Device

**PRODUCT: GTCA25-601L-R05**

DOCUMENT: SCD29023  
REV LETTER: A  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

Agency Recognitions:  
Precedence:  
Effectivity:  
CAUTION:  
flame

UL Recognized  
This specification takes precedence over documents referenced herein  
Reference documents shall be the issue in effect on the date of invitation for bid  
Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame

### Materials Information

**ROHS Compliant**

Directive 2002/95/EC  
Compliant

**ELV Compliant**

Directive 2000/53/EC  
Compliant

**Pb-Free**



Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.