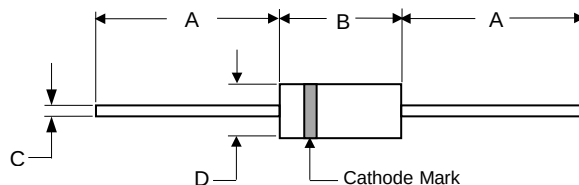


## Fast Recover High Voltage Rectifier

### Features

- For high resolution displays or TV receivers and Working automation equipment
- Diffused-junction
- Excellent high temperature output characteristics (Small leakage current at high temperature and excellent reverse characteristics)



| HV 2.5X6.5, $\Phi 0.5$ |        |       |      |      |
|------------------------|--------|-------|------|------|
| DIM                    | INCHES |       | MM   |      |
|                        | MIN    | MAX   | MIN  | MAX  |
| A                      | 1.024  | ---   | 26   | ---  |
| B                      | 0.248  | 0.264 | 6.3  | 6.7  |
| C                      | 0.019  | 0.021 | 0.47 | 0.53 |
| D                      | 0.091  | 0.106 | 2.3  | 2.7  |

### Maximum Ratings and Thermal Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

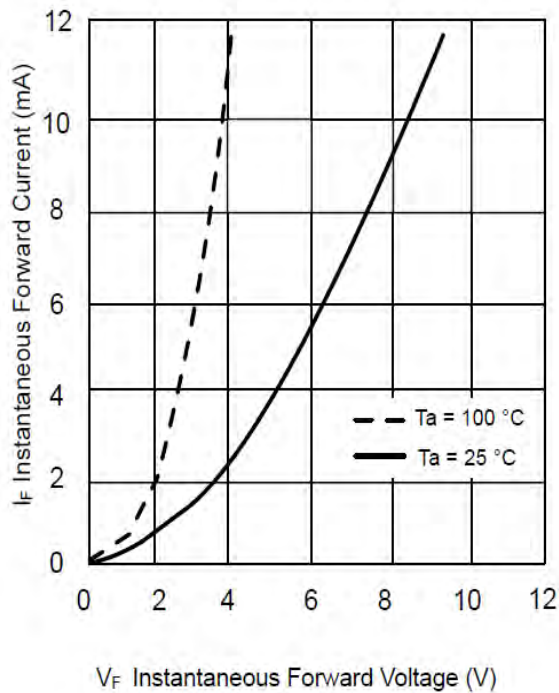
| PARAMETER                            | Symbol | 2CL704                                              | Unit |
|--------------------------------------|--------|-----------------------------------------------------|------|
| Repetitive Peak Reverse Voltage      | VRRM   | 4                                                   | KV   |
| Average Forward Current              | IF(AV) | 5<br>(50HZ half-sine wave, Resistance load Ta=25°C) | mA   |
| Non-Repetitive Forward Surge Current | IFSM   | 0.5<br>(50HZ half-sine wave, 1/2 cycle, Ta = 25 °C) | A    |
| Ambient Temperature                  | Tamb   | -40 --- +100                                        | °C   |
| Maximum Junction Temperature         | T(J)   | 120                                                 | °C   |
| Storage Temperature                  | Tstg   | -40 --- +120                                        | °C   |

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

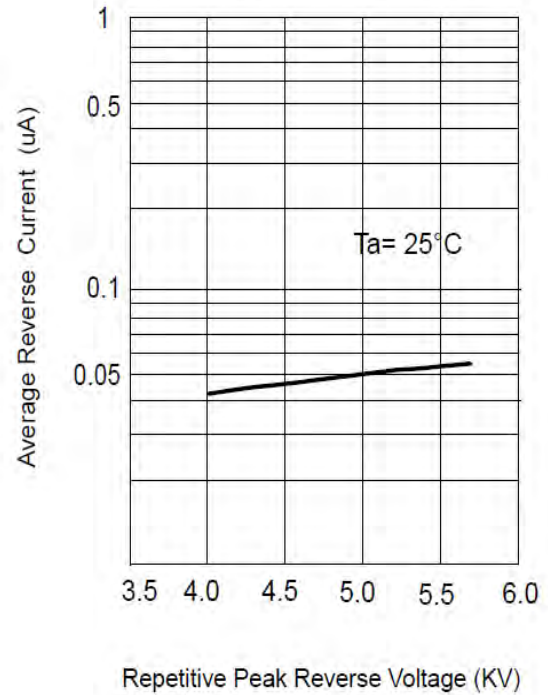
| PARAMETER                                                           | Symbol | 2CL704 | Unit |
|---------------------------------------------------------------------|--------|--------|------|
| Forward Voltage Drop<br>IF =10mA                                    | VF     | 15     | V    |
| Normal Temperature Reverse Current<br>VR=VRRM                       | IRM1   | 2      | μA   |
| High Temperature Reverse Current<br>TA=100°C VR=VRRM                | IRM2   | 5      | μA   |
| Reverse Recovery Time<br>IF =2mA, I <sub>rp</sub> =4mA 1mA recovery | trr    | 100    | nS   |

## Ratings and Characteristic Curves

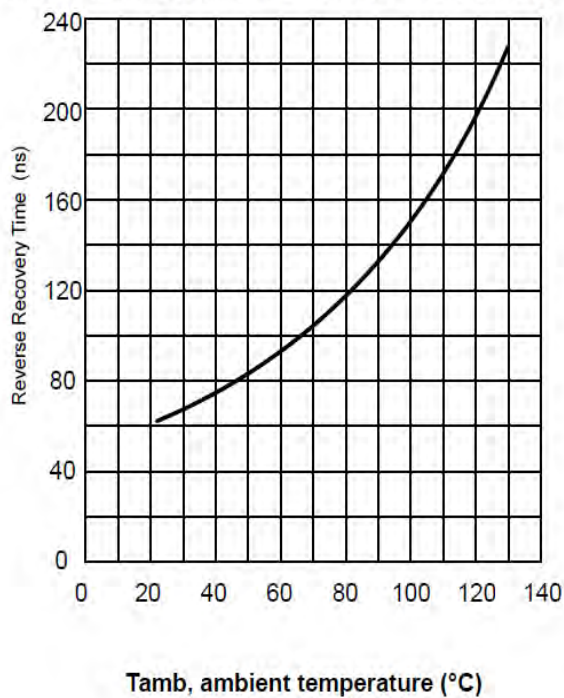
TYPICAL FORWARD CHARACTERISTIC



REVERSE CHARACTERISTIC [VR-IR]



REVERSE RECOVERY TIME CHARACTERISTIC [ $T_a - T_{rr}$ ]



REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

