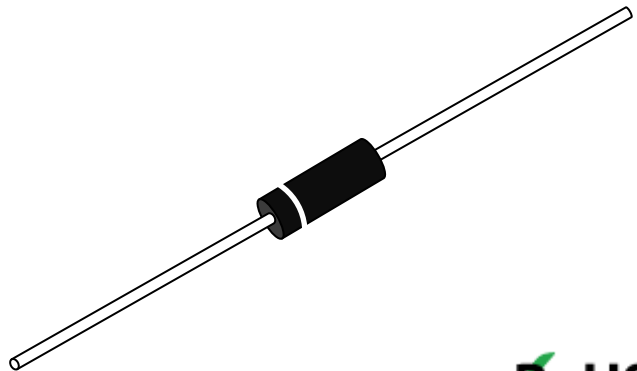
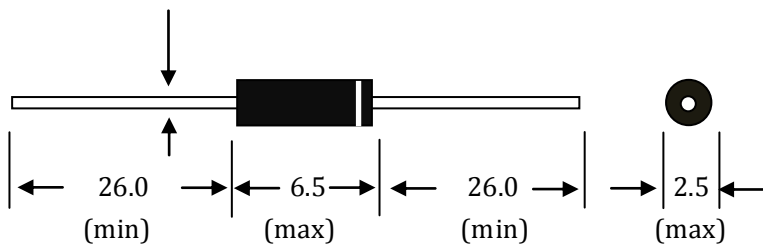


|   |  |
|---|--|
| <b>Introduce:</b>   | <b>Reference Shape:</b>  |
| HVGT high voltage silicon rectifier diodes is made of high quality silicon wafer chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers. |  |
| <b>Features:</b>  |  |
| Fast recovery.<br>High reliability design.<br>Low current, high voltage.<br>Conform to RoHS and SGS.<br>Epoxy resin molded in vacuumHave anticorrosion in the surface.  |  |



|  |                                  |   |
|--|----------------------------------|---|
| <b>Applications:</b>   | <b>HVGT Name:</b>                | <b>Unit: (mm)</b>   |
| Air purification, negative ions.<br>Electrostatic voltage doubling circuit.<br>Copier and X-ray.<br>Other high voltage rectifier circuits. | DO-206<br>Lead Diameter 0.5±0.03 |  |
| <b>Mechanical Data:</b>  |                                  |   |
| Case: epoxy resin molding.<br>Terminal: welding axis.<br>Net weight: 0.18 grams (approx).  |                                  |   |

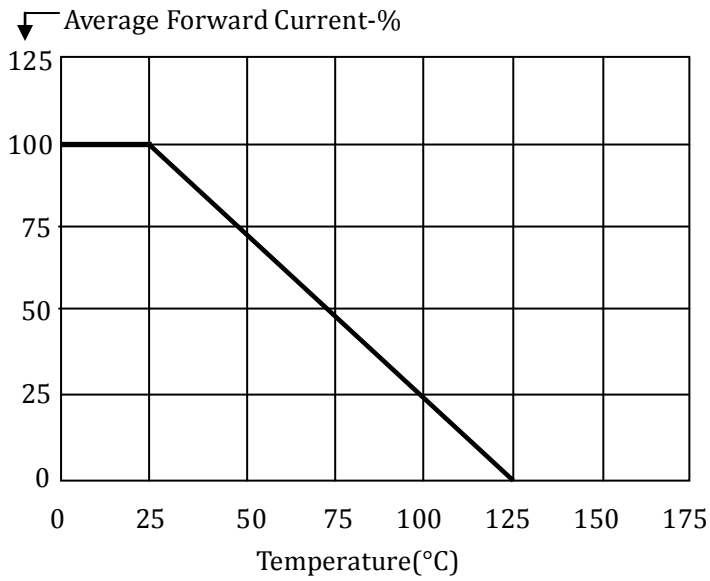
**Maximum Ratings And Characteristics: (Absolute Maximum Ratings)**

| Items                                | Symbols    | Condition                                      | Data Value | Units       |
|--------------------------------------|------------|--|------------|-------------|
| Repetitive Peak Reverse Voltage      | $V_{RRM}$  | $T_A=25^{\circ}C$                              | 4.0        | kV          |
| Non-Repetitive Peak Reverse Voltage  | $V_{RSM}$  | $T_A=25^{\circ}C$                              | --         | kV          |
| Average Forward Current Maximum      | $I_{FAVM}$ | $T_A=25^{\circ}C$                              | 5.0        | mA          |
|                                      |            | $T_{OIL}=55^{\circ}C$                          | --         | mA          |
| Non-Repetitive Forward Surge Current | $I_{FSM}$  | $T_A=25^{\circ}C$ ; 60Hz Half-Sine Wave; 8.3mS | 0.5        | A           |
| Junction Temperature                 | $T_J$      |  | 125        | $^{\circ}C$ |
| Allowable Operation Case Temperature | $T_C$      |  | -40~+125   | $^{\circ}C$ |
| Storage Temperature                  | $T_{STG}$  |  | -40~+125   | $^{\circ}C$ |

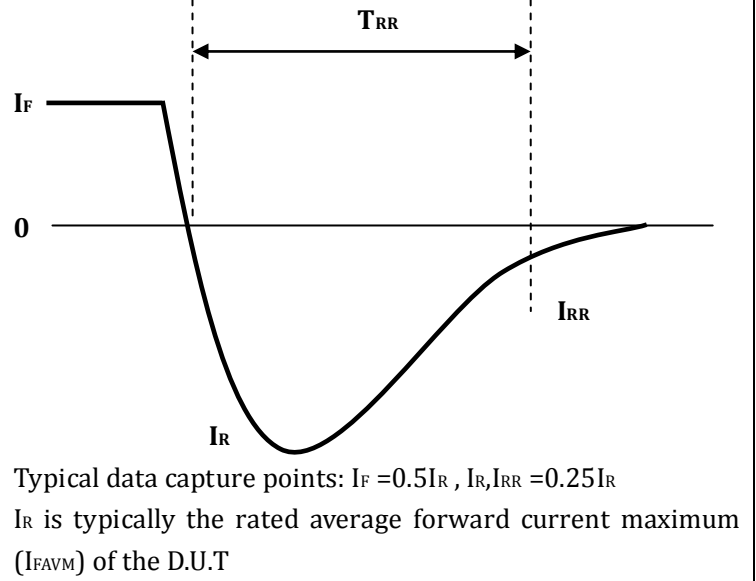
**Electrical Characteristics:  $T_A=25^{\circ}C$  (Unless Otherwise Specified)**

| Items                         | Symbols  | Condition   | Data value | Units   |
|-------------------------------|----------|---|------------|---------|
| Maximum Forward Voltage Drop  | $V_{FM}$ | at $25^{\circ}C$ ; at $I_{FAVM}$                                    | 18         | V       |
| Maximum Reverse Current       | $I_{R1}$ | at $25^{\circ}C$ ; at $V_{RRM}$                                     | 2.0        | $\mu A$ |
|                               | $I_{R2}$ | at $100^{\circ}C$ ; at $V_{RRM}$                                    | 5.0        | $\mu A$ |
| Maximum Reverse Recovery Time | $T_{RR}$ | at $25^{\circ}C$ ; $I_F=0.5I_R$ ; $I_R=I_{FAVM}$ ; $I_{RR}=0.25I_R$ | 80         | nS      |
| Junction Capacitance          | $C_J$    | at $25^{\circ}C$ ; $V_R=0V$ ; $f=1MHz$                              | 1.0        | pF      |

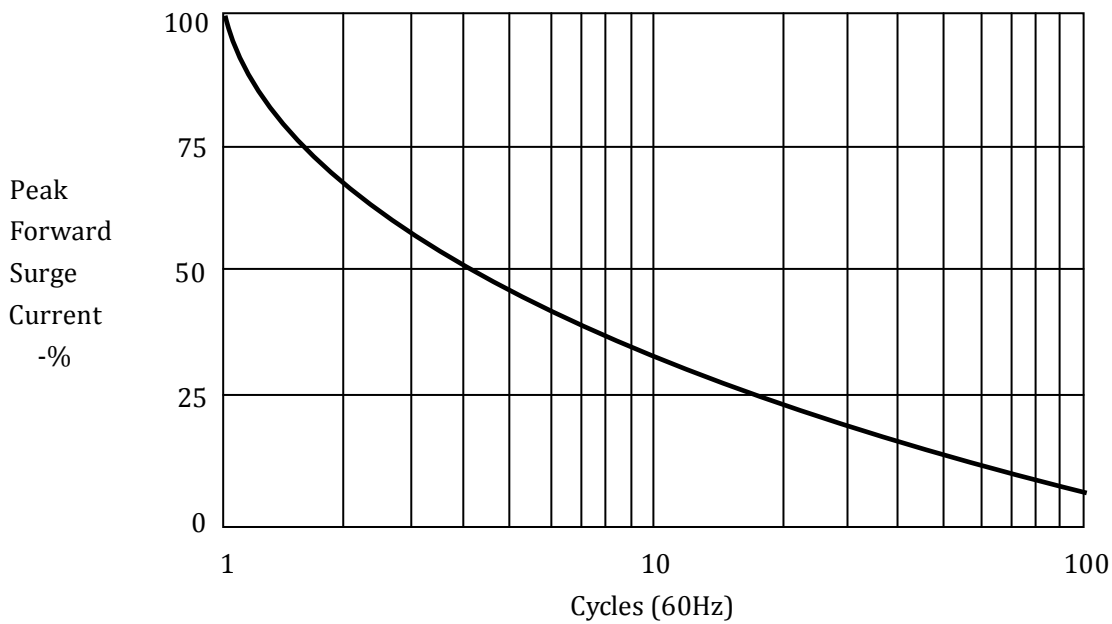
**Forward Current Derating Curve**



**Reverse Recovery Measurement Waveform**



**Non-Repetitive Surge Current**



|                | Type   | Code | Cathode Mark |
|----------------|--------|------|--------------|
| <b>Marking</b> | 2CL69A | --   |              |

**Packaging Standard**

|                |                                |   |
|----------------|--------------------------------|---|
| Bulk Packaging | Label part number nothing "TR" | Package standard download link:   |
| Tape Reel      | Label part number has "TR"     | <a href="http://www.hvgtsemi.com/newsv_489.html">http://www.hvgtsemi.com/newsv_489.html</a> |