

High Voltage Diodes

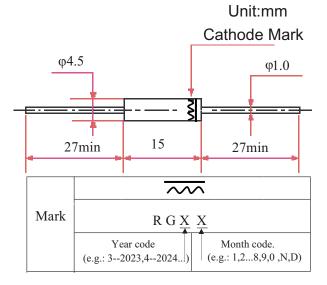
Features

• Silicon Rectification Diode

Application

 Rectification for high voltage power supllier of color duplicating machine and other electronic products

OUTLINE DRAWINGS



MAX.RATED VALUE

| MAXXATED VALUE | | | | | | |
|---|------------------|---|-----------|------|--|--|
| Rated Value | Sign | Condition | R30KH | Unit | | |
| Peak Reverse Repetitive Voltage | V _{RRM} | | 30 | kV | | |
| Non-Repetitive Peak Reverse Voltageier | V _{RSM} | | 35 | kV | | |
| Average Forward Rectifier Current | I_{O} | | 50 | mA | | |
| Max. Irrepetitive Surge current | I_{FSM} | Ta=25°C" rated load" half cycle" single phase" 50Hz 10ms | 3.0 | A | | |
| Junction Temperature | Tj | half cycle sinewave peak voltage | 120 | °C | | |
| Operating Ambient Temperature | Та | | -40~+ 100 | °C | | |
| Store Temperature | Tstg | | -40~+120 | °C | | |

Electric Characteristic

| Rated Value | Sign | Condition | R30KH | Unit |
|--|----------|--|-------|------|
| Max Forward Voltage Drop | V | I _F =50mA | 45 | V |
| Max. Reverse Recovery Time | trr | I _F =2mA I _R =4mA | 0.1 | μS |
| Max. Normal Temperature Reverse Current | I_{R1} | V _R =V _{RRM} " 25 °C | 2.0 | μА |
| Max. High Temperature Reverse Current | I_{R2} | $V_R=V_{RRM}~"~100~{}^0\!\text{C}$ | 5.0 | μА |
| Max. Junction Capacitor | Cj | 1MHZ,V _B =0V | 1 | pF |

RATING AND CHARACTERISTICS CURVES (R30KH)

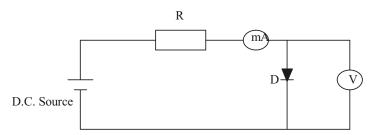


Fig.1 Forward voltage drop test circuit

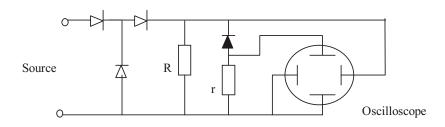


Fig.2 Reverse current test circuit

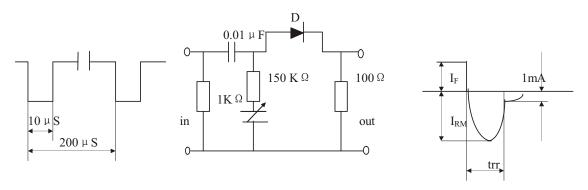


Fig. 3 Circuit and wave diagram for trr testing



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

