

Fast Recovery High Voltage Diodes

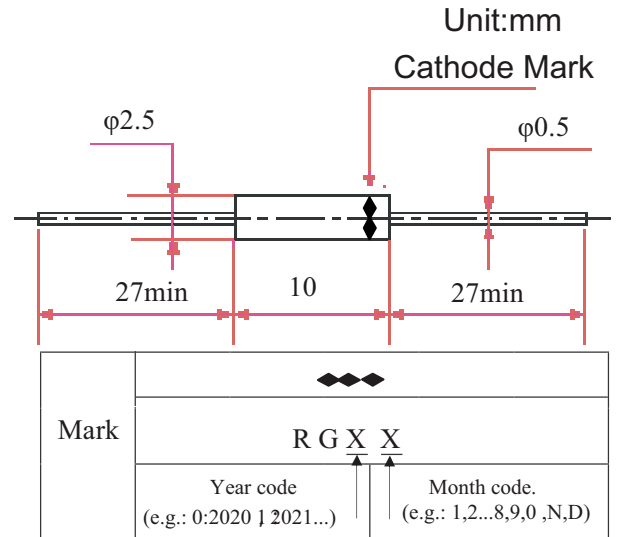
Features:

- Fast recovery
- Low forward on pressure, low leakage current
- Protection of avalanche breakdown
- Antiimpacting of discharging of CRT high voltage surge current
- Axial lead diode, could weld on tube pin
- Epoxy resin molded and can resist corrosion on its surface

Application:

- Television and FBT display
- Cathode ion generator, laser power supply
- Neon lamp power supply, voltage multiplier assembly
- DC high voltage generator assembly

■ OUTLINE DRAWINGS



MAX.RATED VALUE

RatedValue	Sign	Condition	R12000H	Unit
Peak Reverse Repetitive Voltage	V_{RRM}		12	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}		15	kV
Average Forward Current	$I_{F(AV)}$	50Hz Sine-half Wave Rectification Average Value $T_{amb}=50^{\circ}C$	5.0	mA
Non-Repetitive Forward Surge Current	I_{FSM}	50Hz 10ms Sine-half Wave	0.5	A
Maximum Junction Temperature	$T_{(VJ)}$		120	$^{\circ}C$
Ambient Temperature	T_{amb}		-40~+ 100	$^{\circ}C$
Store Temperature	T_{stg}		-40~+120	$^{\circ}C$

Electric Characteristic

RatedValue	Sign	Condition	R12000H	Unit
Max Forward Voltage Drop	V_{FM}	$I_F=10mA$	37.5	V
Max. Reverse Recovery Time	t_{rr}	$I_F=2mA$ $I_R=4mA$ For edge of pulse less than 0.01μS	0.1	μS
Max. Normal Temperature Reverse Current	I_{R1}	$V_{RRM}=12kV$	2.0	μA
Max. High Temperature Reverse Current	I_{R2}	$V_{RRM}=12kV$ $T_{amb}=100^{\circ}C$	5.0	μA
Max. Junction Capacitor	C_j	1MHZ, $V_B=0V$	1	pF

RATING AND CHARACTERISTICS CURVES (R12000H)

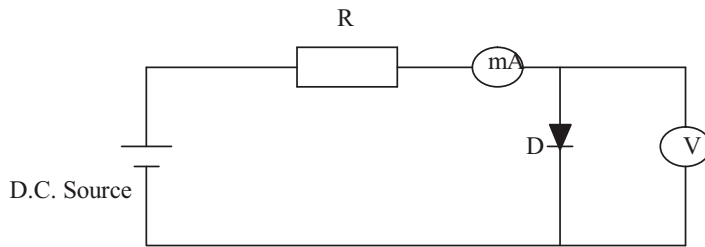


Fig.1 Forward voltage drop test circuit

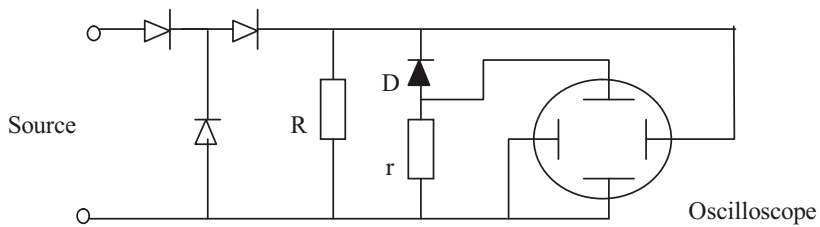
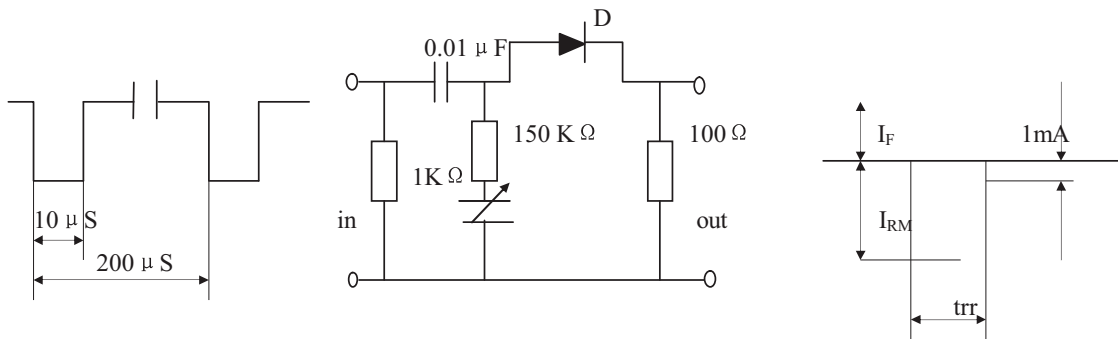


Fig.2 Reverse current test circuit



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.