

Fast Recovery High Voltage Diodes

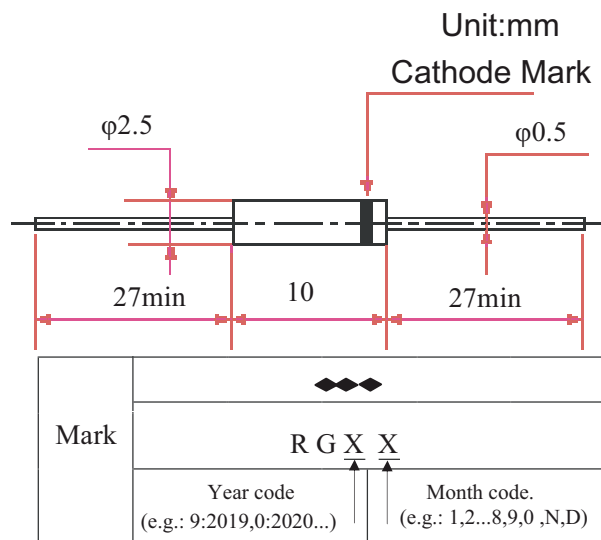
Features:

- 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	R10000H	Unit
Peak Reverse Repetitive Voltage	V_{RRM}		10	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}		12	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	R10000H	Unit
Max Forward Voltage Drop	V_{FM}	$I_F=10mA$	30.0	V
Max. Reverse Recovery Time	t_{rr}	$I_F=2mA$ $I_R=4mA$ Fore edge of pulse less than 0.01μS	0.1	μS
Max. Normal Temperature Reverse Current	I_{R1}	$V_{RRM}=10kV$	2.0	μA
Max. High Temperature Reverse Current	I_{R2}	$V_{RRM}=10kV$ $T_{amb}=100^{\circ}C$	5.0	μA
Max. Junction Capacitor	C_j	1MHZ, $V_B=0V$	1	pF

RATING AND CHARACTERISTICS CURVES (R10000H)

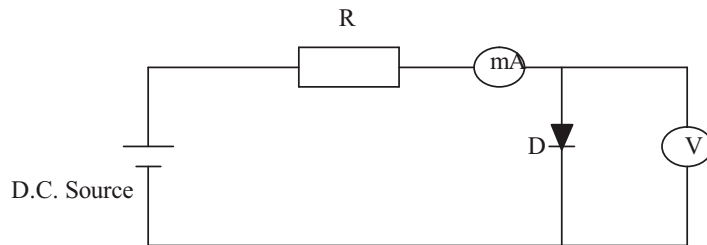


Fig.1 Forward voltage drop test circuit

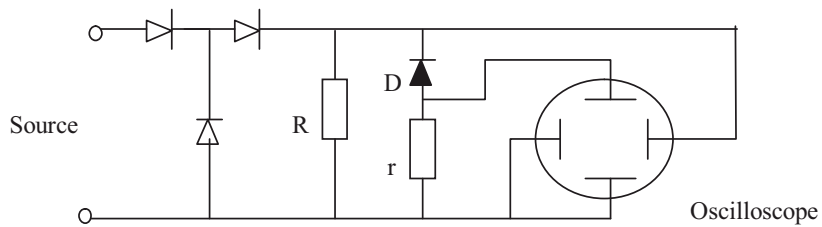
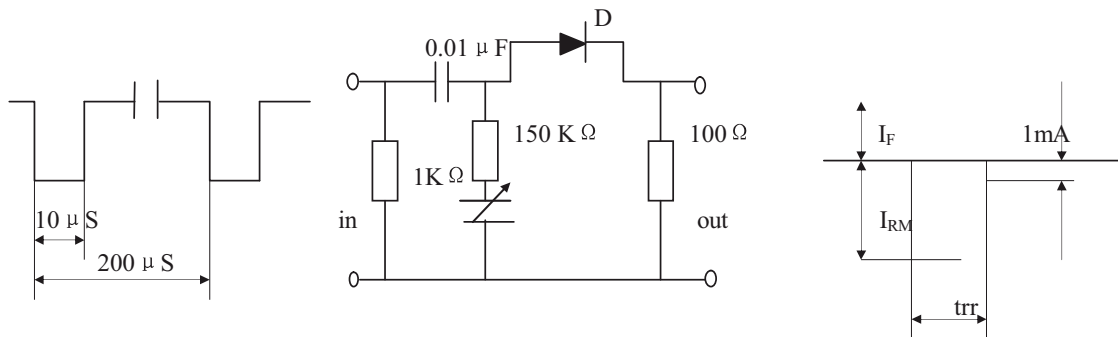


Fig.2 Reverse current test circuit



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
R8000H R10000H	-F	5000	5.0	52	260*75*132	430*300*295	50,000	---

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