RECTRON
SEMICONDUCTOR
TECHNICAL SPECIFICATION

R1000

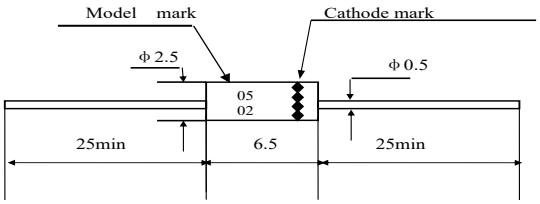
HIGH VOLTAGE RECTIFIER

VOLTAGE RANGE 1000 Volts CURRENT 30 mAmpere

FEATURES

* Silicon Rectification Diode
* Mounting position: Any

R1000



Unit:mm

Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	1	KV
Average Forward Current 50HZ Sine-half Wave Rectification Average Value (Ta=50 °C)	$I_{F(AV)}$	30	mA
Non-Repetitive Forward Surge Current 50HZ 10ms Sine-half Wave, (Ta=25 °C)	I_{FSM}	3	A
Surge Reverse Current (W_P =100 μ s triangular pulse)	I_{RSM}	30	mA
Maximum Junction Temperature	$T_{(VJ)}$	-40~+150	°C
Storage Temperature	T_{stg}	-40~+150	°C

Electrical Characteristics(Tamb =25 °C,unless otherwise specified)

Item	Symbol	Rating	Unit
Forward Voltage Drop I_{FM}=10mA	V_{FM}	1.9max	V
Normal Temperature Reverse Current Ta=25°C	I_{RM1}	2max	μ A
High Temperature Reverse Current Ta=100°C	I_{RM2}	10max	μ A
Reverse Breakdown Voltage I_R=100uA	V_Z	1.2-2.0	KV

RATING AND CHARACTERISTICS CURVES(R1000)

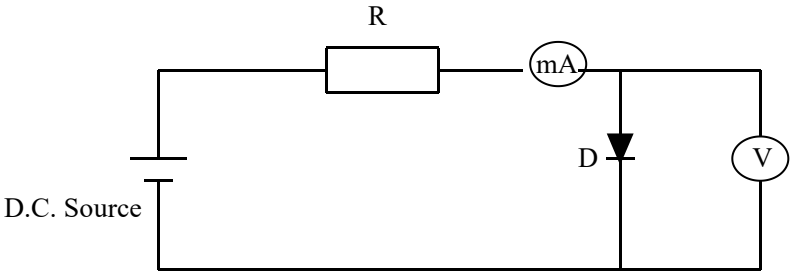


Fig.1 Forward voltage drop test circuit

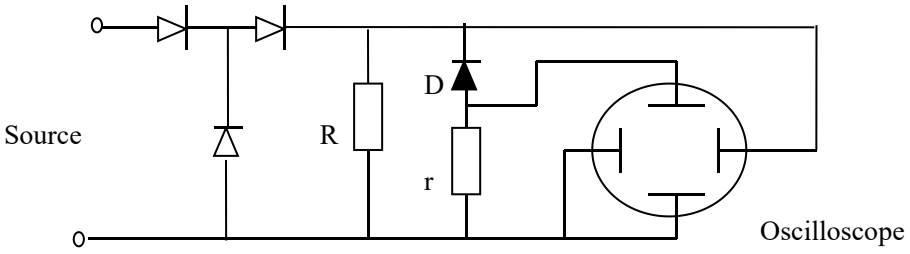


Fig.2 Reverse current test circuit

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