

PLASTIC SEALED HIGH VOLTAGE SILICON RECTIFIER

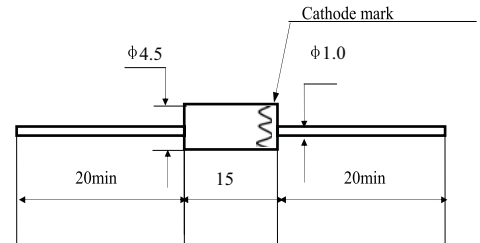
Features:

- Silicon Rectification Diode

Application:

- For High Voltage Rectification For MWO Of Frequency Conversion

R10KH Unit:mm



Unmarked with polarity only

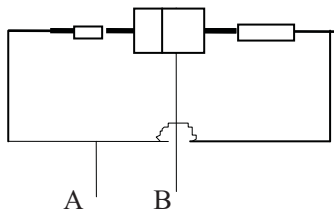
MAX.RATED VALUE

Rated Value	Sign	Condition	R25KH	Unit
Peak Reverse Repetitive Voltage	V_{RRM}		25	kV
Average Forward Rectifier Current	I_O		0.1	A
Max. Irrepetitive Surge current	I_{FSM}	Ta=25 ⁰ C " rated load" half cycle" single phase" 50Hz	10	A
Maximum Junction Temperature	Tj	half cycle sinewave peak voltage	130	⁰ C
Store Temperature	Tstg		-40~+130	⁰ C

Electric Characteristic

Rated Value	Sign	Condition	R25KH	Unit
Max Forward Voltage Drop	V_F	$I_F=0.01A$	35	V
Max. Reverse Recovery Time	trr	$I_R = 4mA$ $I_F = 2mA$	0.1	μS
Max. Normal Temperature Reverse Current	I_{R1}	$V_R=V_{RRM}$ " 25 ⁰ C	2.0	μA
Max. High Temperature Reverse Current	I_{R2}	$V_R=V_{RRM}$ " 100 ⁰ C	50	μA
Reverse Breakdown Voltage	V_{br}	$I_R=100\mu A$	25 (Min)	kV

Fig.1 Insulation resistance test and insulation strength test



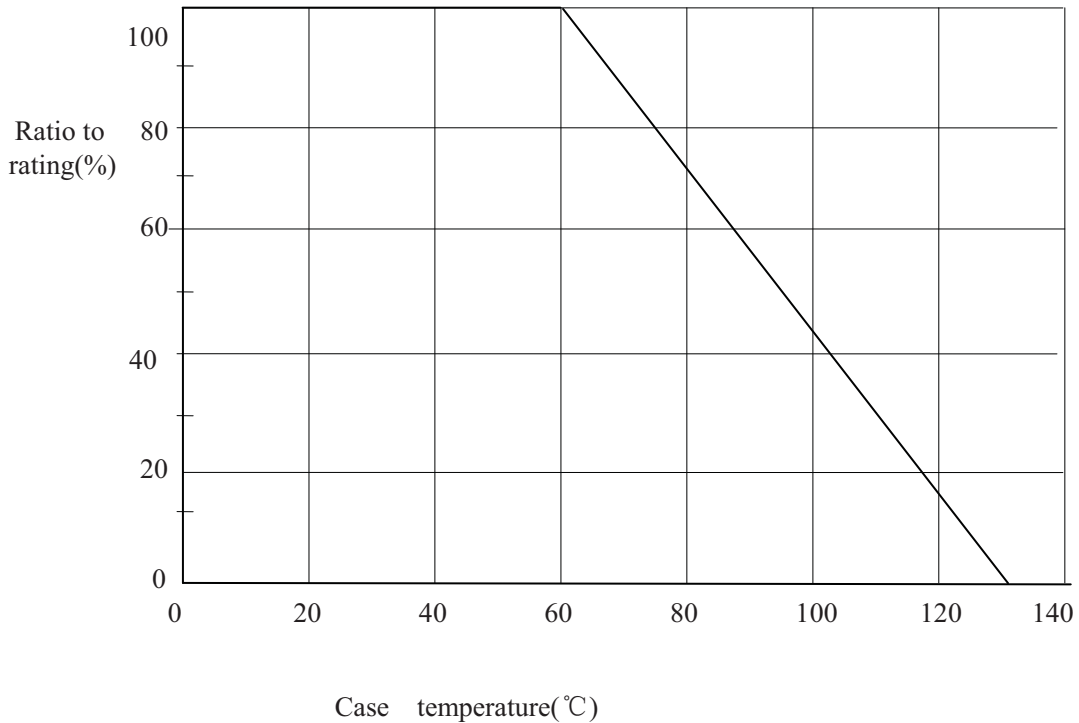
Roll metal foil with 3mm width around center of the body

Insulation resistance test condition: Measure between A and B by using a DC 500V insulation resistance tester.

Insulation strength test condition: Apply half sine wave voltage with 10KV wave height between A and B in insulation liquid .

Fig2. Derating of forward current for ambient temperature

(On condition of provision of a fin on cathode side and air cooling)



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.