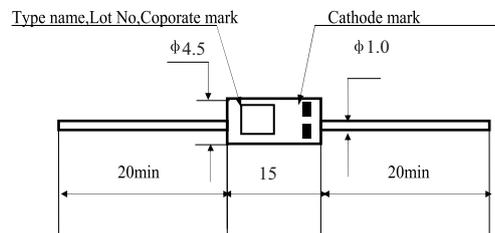


PLASTIC SEALED HIGH VOLTAGE SILICON RECTIFIER

■ OUTLINE DRAWINGS Unit:mm



Features:

- Silicon Rectification Diode

Application:

- For high voltage rectification for "MWO of frequency conversion"

Mark	CL03 -10C	← Type name
	R G X XX	
	Year code (e.g.:2019---9,2020---0 ,...)	Month code. (e.g.: 01,02...10,11,12)

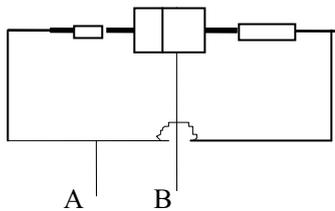
MAX.RATED VALUE

Rated Value	Sign	Condition	R10KH	Unit
Peak Reverse Repetitive Voltage	V_{RRM}		10	kV
Average Forward Rectifier Current	I_O		0.12	A
Max. Irrepetitive Surge current	I_{FSM}	Ta=25°C" rated load" half cycle" single phase" 50Hz	15	A
Maximum Junction Temperature	Tj	half cycle sinewave peak voltage	130	°C
Store Temperature	Tstg		-40~+130	°C

Electric Characteristic

Rated Value	Sign	Condition	R10KH	Unit
Max Forward Voltage Drop	V_F	$I_F=0.01A$	18	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 °C	5.0	μA
Max. High Temperature Reverse Current	I_{R2}	$V_R=V_{RRM}$ " 100 °C	50	μA
Reverse Breakdown Voltage	V_{br}	$I_R=100uA$	10 (Min)	kV

Fig.1 Insulation resistance test and insulation strength test



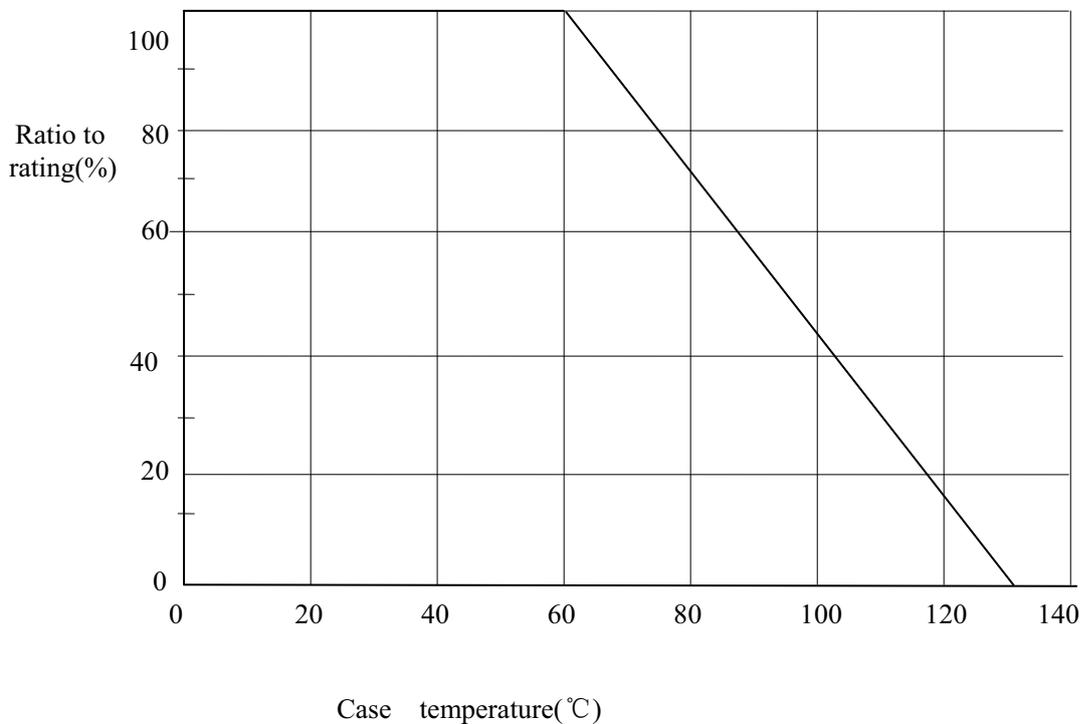
Roll metal foil with 3mm width around center of the body

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)



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