

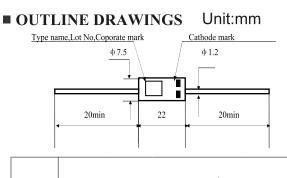
PLASTIC SEALED HIGH VOLTAGE SILICON RECTIFIER STACK

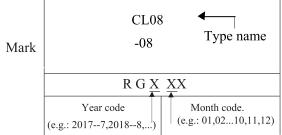
Features:

• Silicon Rectification Diode

Application:

• For high voltage rectification for 'MWO of frequency conversion'





MAX.RATED VALUE

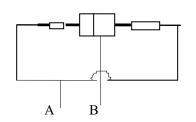
Rated Value	Sign	Condition	R8KH	Unit
Peak Reverse Repetitive Voltage	V _{RRM}		8.7	kV
Reverse Surge Current	I _{rsm}	width 1ms triangle wave single pulse	0.2	А
Average Forward Rectifier Current	Io		0.38	А
Max. Irrepetitive Surge current	I _{FSM}	Ta=25 [°] C ["] rated load ["] half cycle ["] single phase ["] 50Hz	15	А
Iaximum Junction Temperature Tj half cycle sinewave peak voltage			130	°C
Store Temperature	Tstg		-40~+130	⁰ C

Electric Characteristic

Rated Value	Sign	Condition	R8KH	Unit
Max Forward Voltage Drop	V	I _F =0.35A	14	V
Max. Reverse Recovery Time	trr	$I_{\rm F} = I_{\rm R} = 100 {\rm mA} 90\% {\rm Value}.$	0.15	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	8.7	kV

RATING AND CHARACTERISTICS CURVES (R8KH)

Fig.1 Insulation resistance test and insulation strength test

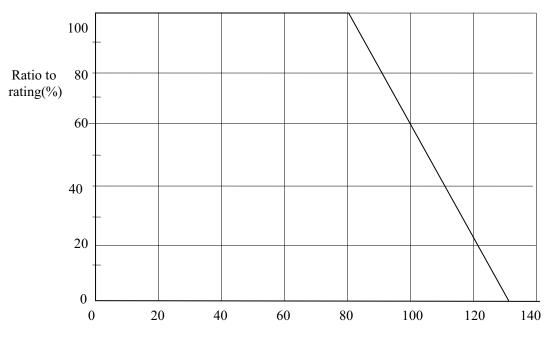


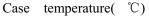
Roll metal foil with 3mm width around center of the body

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.

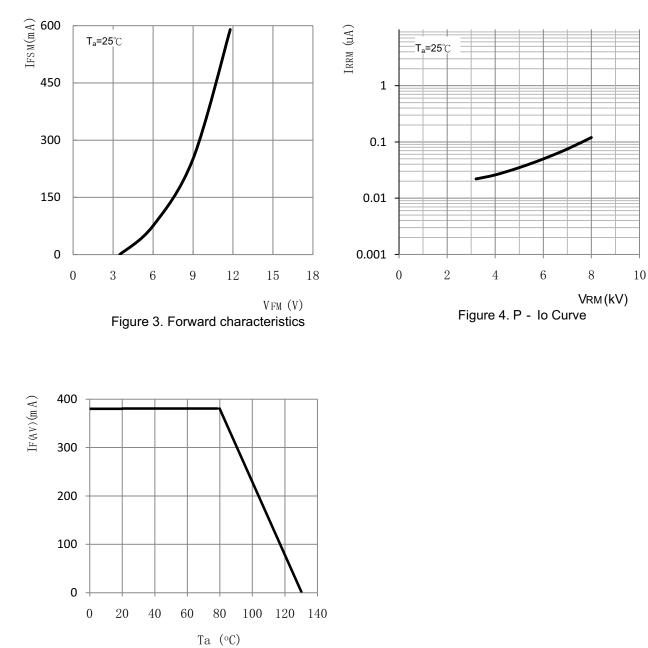
Fig2. Derating of forward current for ambient temperature

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





CRECTRON -

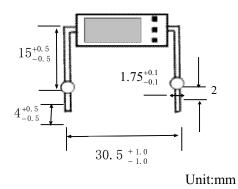


RATING AND CHARACTERISTICS CURVES (R8KH)

Figure 5. I F(AV) - Ta Derating

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R8KH-H45





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

PACKAGE	PACKING	BAG	BAG	PER BOX	BOX SIZE	CARTON	PER CARTON
	CODE	(EA)	SIZE(mm)	(EA)	(mm)	SIZE(mm)	(EA)
R8KH	-B	100	140*135	1,000	350*130*105	555*370*155	5,000



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