

**VOLTAGE RANGE: 1200 - 2000V**  
**CURRENT: 0.5 A**

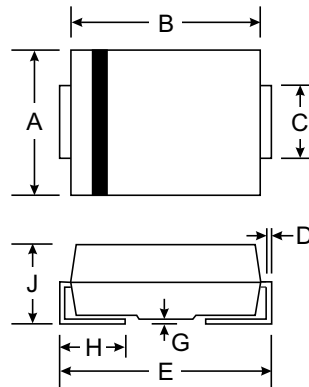
### Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with alcohol, Isopropanol and similar solvents



### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		



### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

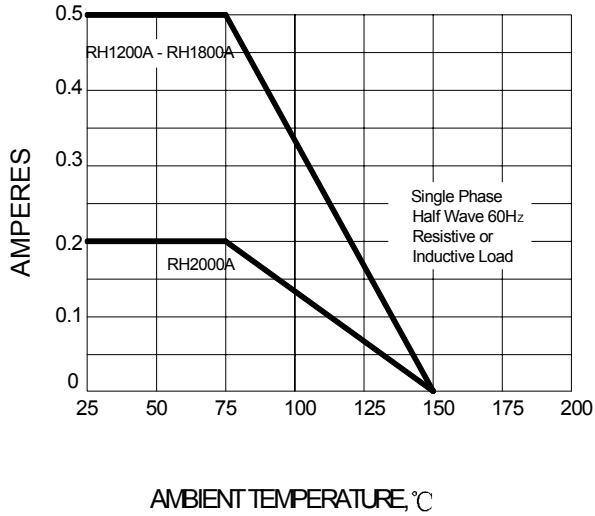
Characteristic	Symbol	RH1200A	RH1500A	RH1800A	RH2000A	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	1200	1500	1800	2000	V
Maximum RMS voltage	V <sub>RMS</sub>	840	1050	1260	1400	V
Maximum DC blocking voltage	V <sub>DC</sub>	1200	1500	1800	2000	V
Maximum average forward rectified current 9.5mm lead length, @T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	0.5				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T <sub>J</sub> =125°C	I <sub>FSM</sub>	30.0				A
Maximum instantaneous forward voltage @ 0.5A	V <sub>F</sub>	2.5				V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 100.0				μA
Maximum reverse capacitance (Note1)	t <sub>rr</sub>	500				ns
Typical thermal resistance (Note2)	R <sub>θJA</sub>	35				°C/W
Typical junction capacitance (Note3)	C <sub>J</sub>	15				pF
Operating junction temperature range	T <sub>J</sub>	- 55 ---- + 150				°C
Storage temperature range	T <sub>STG</sub>	- 55 ---- + 150				°C

NOTE: 1. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.  
 2. Thermal resistance from junction to ambient.  
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

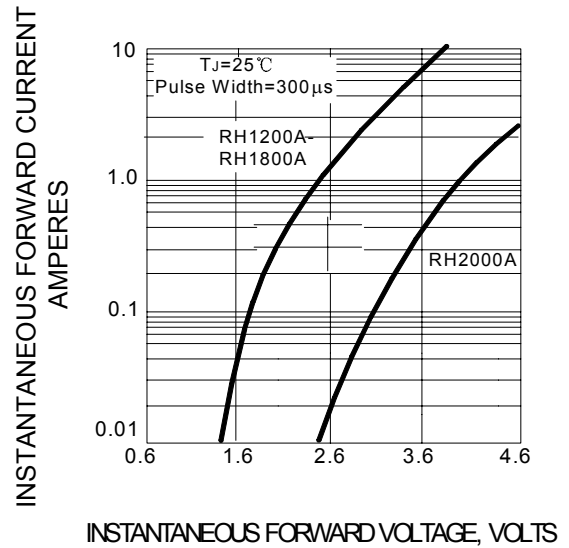
## RATINGS AND CHARACTERISTIC CURVES RH1200A -RH2000A

AVERAGE FORWARD RECTIFIED CURRENT

**FIG.1 – FORWARD DERATING CURVE**

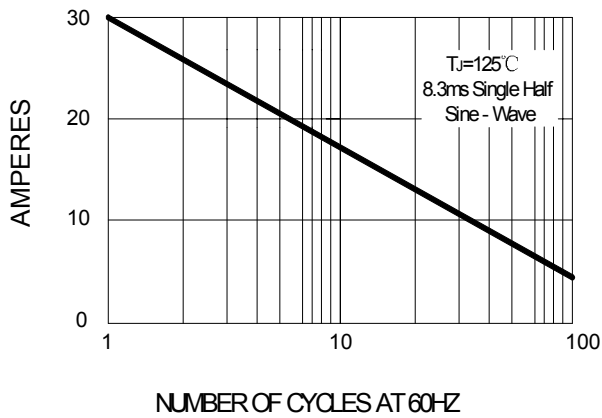


**FIG.2 – TYPICAL FORWARD CHARACTERISTICS**



PEAK FORWARD SURGE CURRENT

**FIG.3 – PEAK FORWARD SURGE CURRENT**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**

