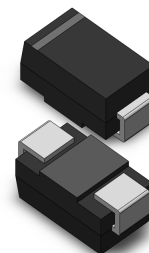


**VOLTAGE RANGE: 1200 - 2000V**  
**CURRENT: 0.5 A**

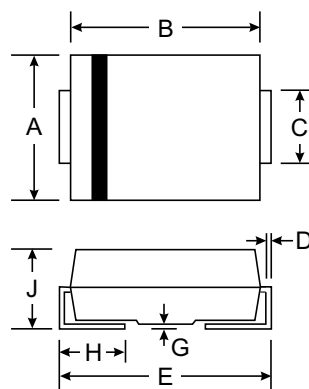


### Features

- 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 $T_A = 25^\circ\text{C}$ 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	$V_{RRM}$	1200	1500	1800	2000	V
Maximum RMS voltage	$V_{RMS}$	840	1050	1260	1400	V
Maximum DC blocking voltage	$V_{DC}$	1200	1500	1800	2000	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ\text{C}$	$I_{F(AV)}$	0.5				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	$I_{FSM}$	30.0				A
Maximum instantaneous forward voltage @ 0.5A	$V_F$	2.5				V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	$I_R$	5.0 100.0				$\mu\text{A}$
Maximum reverse capacitance (Note1)	$t_{rr}$	500				ns
Typical thermal resistance (Note2)	$R_{\theta JA}$	35				$^\circ\text{C}/\text{W}$
Typical junction capacitance (Note3)	$C_J$	15				pF
Operating junction temperature range	$T_J$	- 55 ---- + 150				$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- + 150				$^\circ\text{C}$

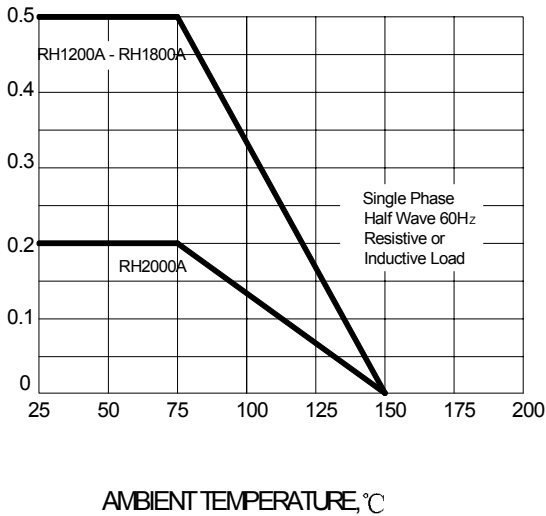
NOTE: 1. Measured with  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{rr}=0.25\text{A}$ .  
 2. Thermal resistance from junction to ambient.  
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



RATINGS AND CHARACTERISTIC CURVES RH1200A -RH2000A

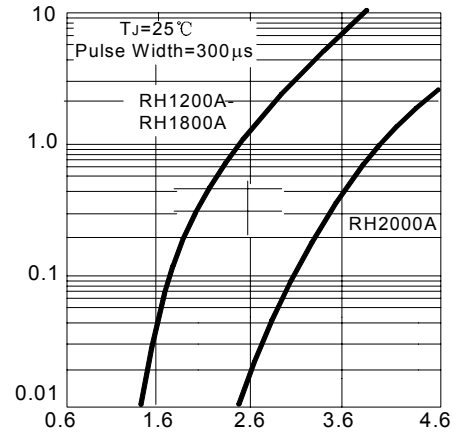
AVERAGE FORWARD RECTIFIED CURRENT

**FIG.1 – FORWARD DERATING CURVE**



**FIG.2 – TYPICAL FORWARD CHARACTERISTICS**

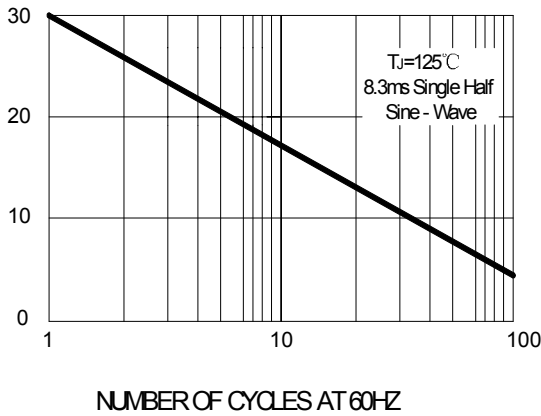
INSTANTANEOUS FORWARD CURRENT AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

PEAK FORWARD SURGE CURRENT

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



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**

CAPACITANCE, pF

