

VOLTAGE RANGE: 1200 - 2000V
CURRENT: 0.5 A

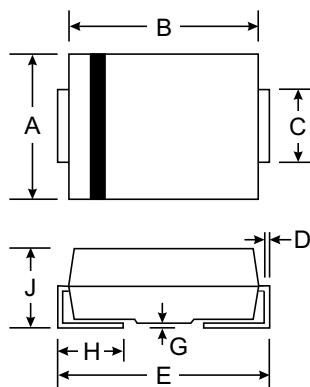
Features

- 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				μA
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

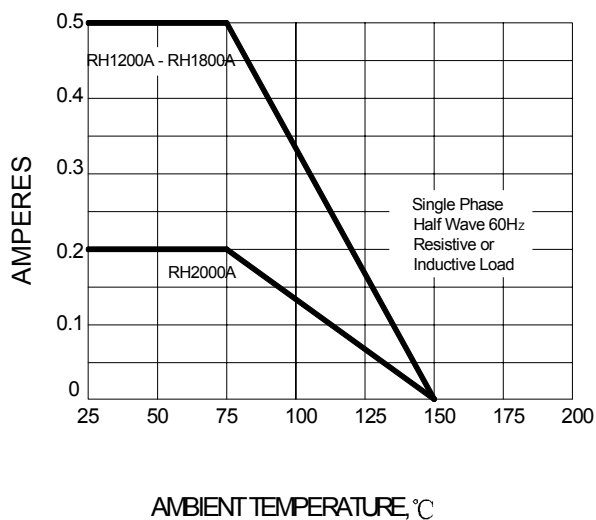
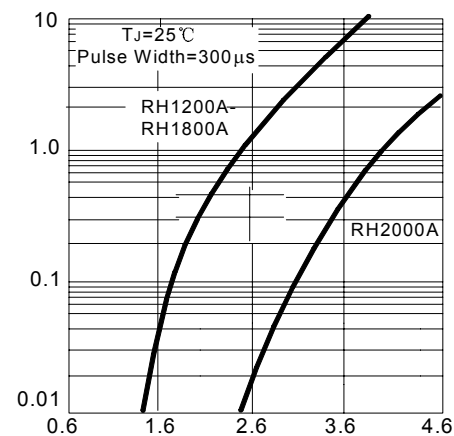


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

PEAK FORWARD SURGE CURRENT

FIG.3 – PEAK FORWARD SURGE CURRENT

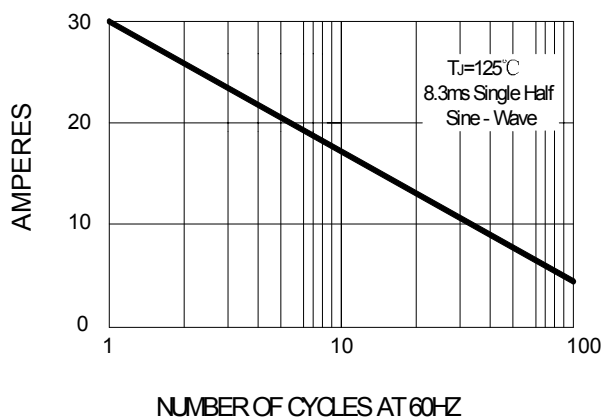


FIG.4 – TYPICAL JUNCTION CAPACITANCE

