



HA11 THRU HA18

1.0 AMP. HIGH EFFICIENCY RECTIFIERS

查询"HA17"供应商

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 0.20 grams

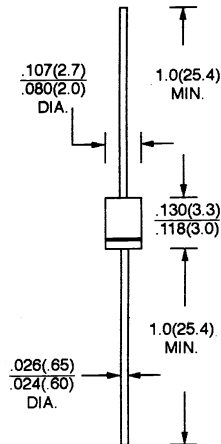
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

R-1



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| TYPE NUMBER | SYMBOLS | HA11 | HA12 | HA13 | HA14 | HA15 | HA16 | HA17 | HA18 | UNITS | |
|---|-------------|---------------|------|------|------|------------|------|------|------|------------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V | |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | V | |
| Maximum D.C Blocking Voltage | V_{DC} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V | |
| Maximum Average Forward Rectified Current .375" (9.5mm) lead length @ $T_A = 40^\circ C$ | $I_{F(AV)}$ | 1.0 | | | | | | | | A | |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 25 | | | | | | | | A | |
| Maximum Instantaneous Forward Voltage at 1.0A | V_F | 1.0 | | | 1.3 | | 1.7 | | | V | |
| Maximum D.C Reverse Current @ $T_A = 25^\circ C$ at Rated D.C Blocking Voltage @ $T_A = 100^\circ C$ | I_R | | | | | 5.0 100 | | | | | μA μA |
| Maximum Reverse Recovery Time (Note 1) | T_{RR} | 50 | | | | 75 | | | | nS | |
| Typical Junction Capacitance (Note 2) | C_J | 20 | | | | 15 | | | | pF | |
| Operating Temperature Range | T_J | - 65 to + 125 | | | | | | | | $^\circ C$ | |
| Storage Temperature Range | T_{STG} | - 65 to + 150 | | | | | | | | $^\circ C$ | |

NOTES: 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.

2. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

查询“RATINGS AND CHARACTERISTIC CURVES (HA11 THRU HA18)

FIG. 1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

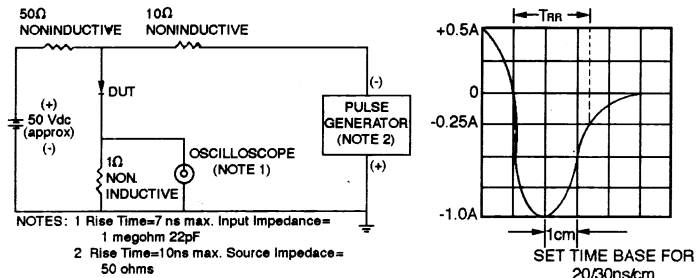


FIG. 2 – TYPICAL FORWARD CURRENT DERATING CURVE

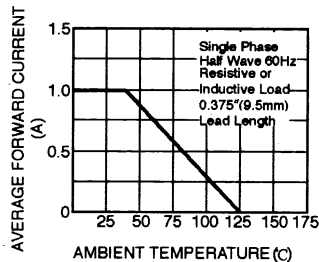


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

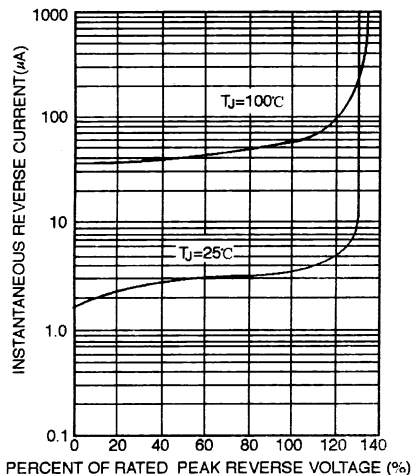


FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

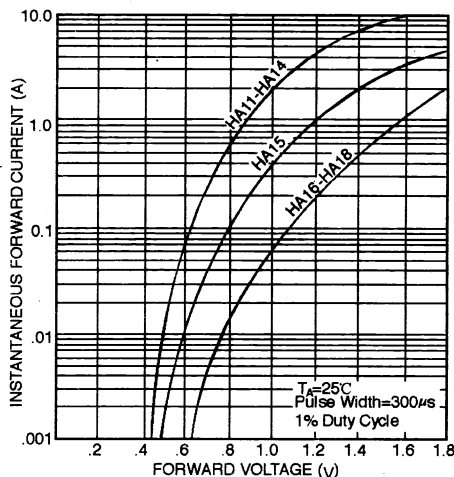


FIG. 5 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

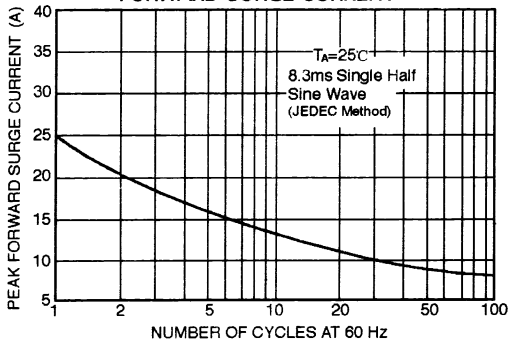


FIG. 6 – TYPICAL JUNCTION CAPACITANCE

