

SR820 THRU SR8100



8.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any

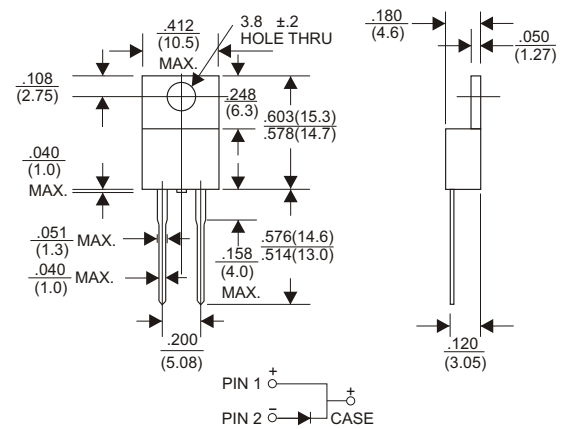
VOLTAGE RANGE

20 to 100 Volts

CURRENT

8.0 Amperes

TO-220A



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

[illegible]

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SR820 THRU SR8100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

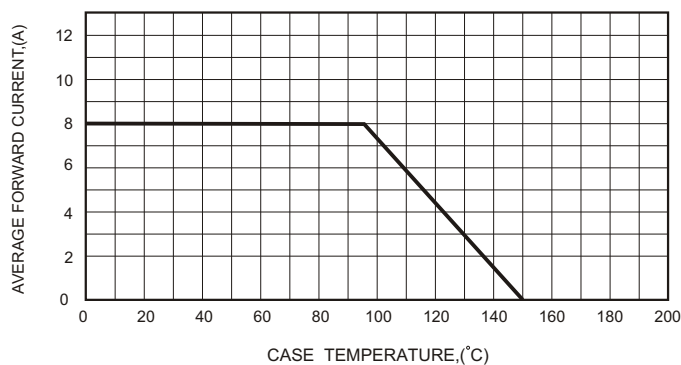


FIG.2-TYPICAL FORWARD CHARACTERISTICS

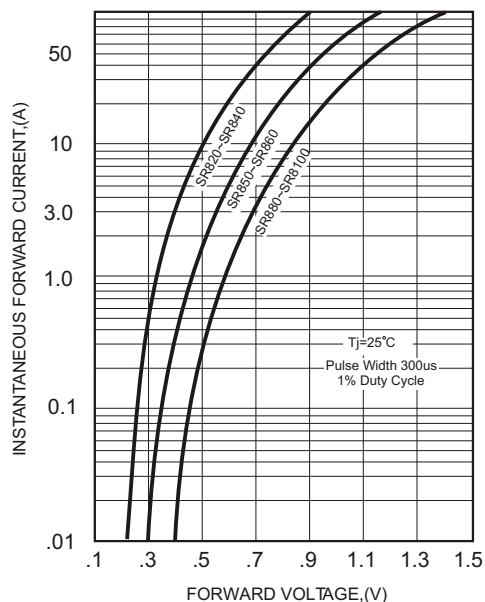


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

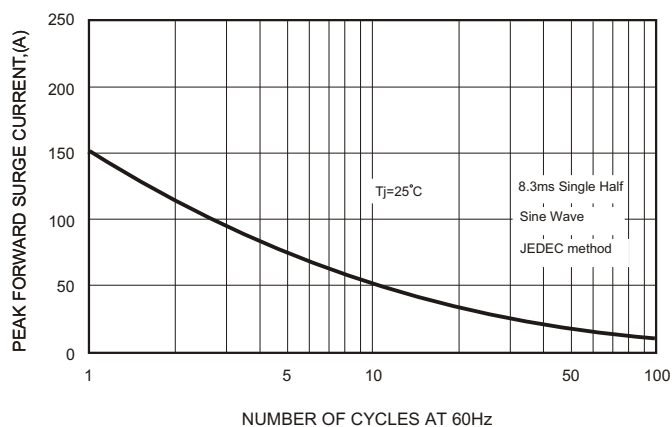


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

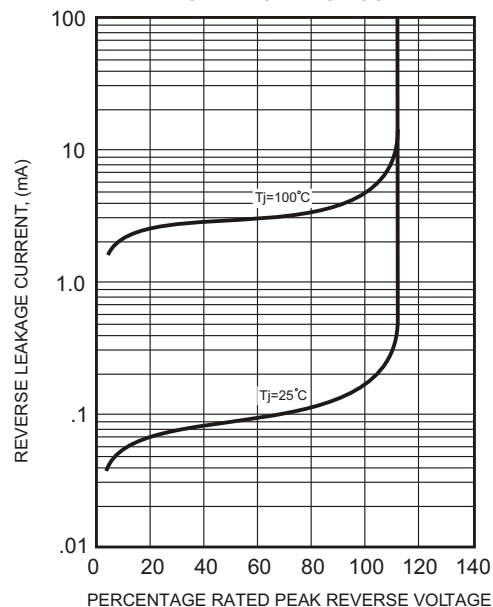
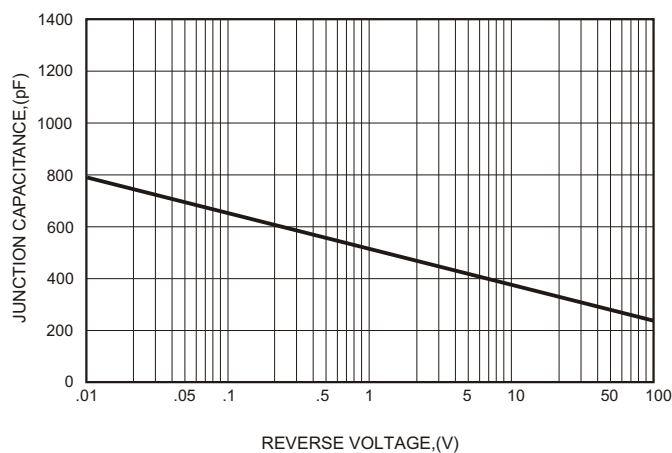


FIG.4-TYPICAL JUNCTION CAPACITANCE



GW

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

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guranteed
- * Polarity: As Marked
- * Mounting position: Any

10.0 Amperes

The mechanical drawing of the 1N4148 diode includes the following dimensions and features:

- Top View:**
 - Overall width: $.108$ (2.75)
 - Top width: $.412$ (10.5) MAX.
 - Top hole diameter: $3.8 \pm .2$ HOLE THRU
 - Distance from top hole to center: $.248$ (6.3)
 - Distance from top hole to bottom hole: $.603$ (15.3)
 - Distance from top hole to bottom hole (alternative): $.578$ (14.7)
 - Distance from top hole to bottom hole (alternative): $.576$ (14.6)
 - Distance from top hole to bottom hole (alternative): $.514$ (13.0)
 - Distance from top hole to bottom hole (alternative): $.158$ (4.0) MAX.
 - Distance from top hole to bottom hole (alternative): $.051$ (1.3) MAX.
 - Distance from top hole to bottom hole (alternative): $.040$ (1.0) MAX.
 - Distance from top hole to bottom hole (alternative): $.040$ (1.0) MAX.
 - Distance from top hole to bottom hole (alternative): $.200$ (5.08)
- Side View:**
 - Overall height: $.180$ (4.6)
 - Top thickness: $.050$ (1.27)
 - Bottom thickness: $.120$ (3.05)
- Pin Connection:**
 - PIN 1 $\oplus$
 - PIN 2 $\ominus$
 - CASE $\oplus$

Dimensions in inches and (millimeters)

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SR1020 THRU SR10100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

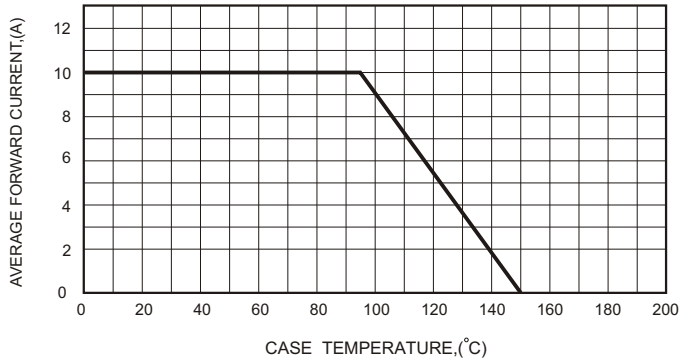


FIG.2-TYPICAL FORWARD CHARACTERISTICS

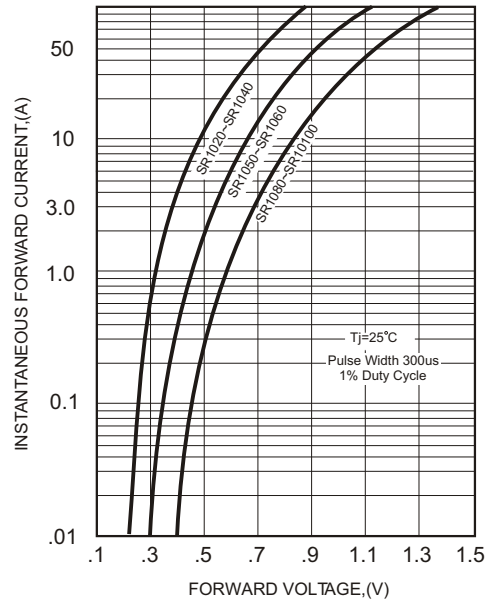


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

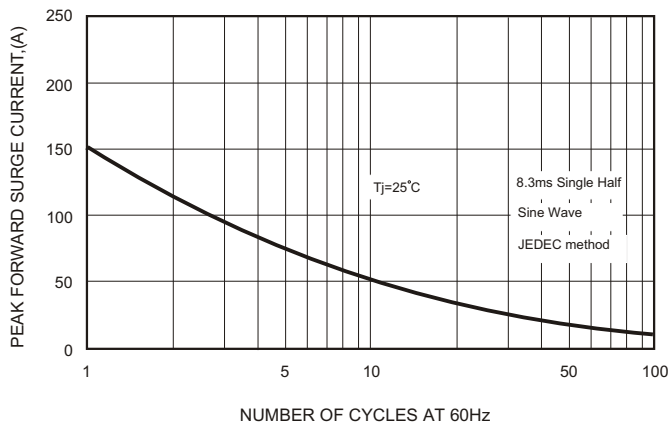


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

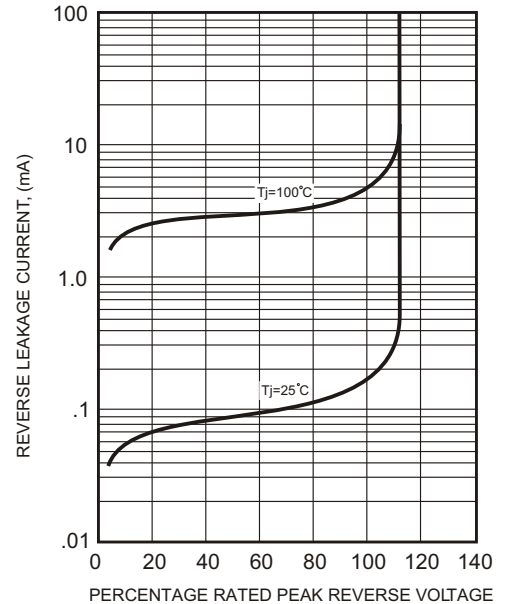


FIG.4-TYPICAL JUNCTION CAPACITANCE

