

SEMITRONICS CORP.

64 Commercial Street, Freeport, NY 11520
Phone (516) 623-9400 FAX (516) 623-8954

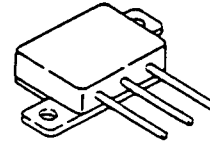
SSR8045CC (CA)

80 AMP 45 VOLT
CENTERTAPED
SCHOTTKY RECTIFIER

FEATURES

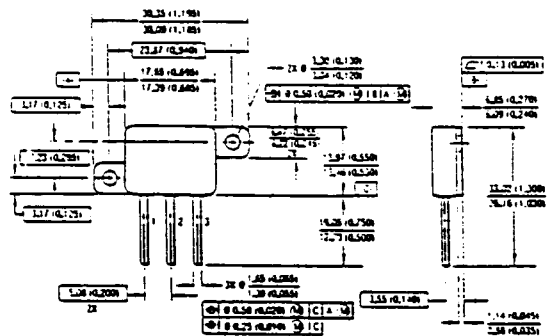
- Hermetically Sealed Package
- Isolated Case
- Low Reverse Leakage
- Hi-Reliability
- High Temperature Operation
- Low Leakage Current
- Low Forward Voltage
- MIL Screening Available

PACKAGE



TO-259 A

CASE OUTLINE



NOTES
 1 DIMENSIONING & TOLERANCING PER ANSI Y14.5M - 1982.
 2 DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES).



Conforms to JEDEC Outline TO-259A
Dimensions in millimeters and (inches)

APPLICATIONS

- High-Rel Power Supplies
- Switching Supplies
- Battery Pack-Up Supplies
- High Current Switching

DESCRIPTION

The SSR8045CC or CA is a high performance dual Schottky Diode, packaged in a three (3) lead hermetic TO-259 package.

CC, Common cathode and CA, common anode types available.

Hi-Rel screening to STX level available.

Custom lead forming available.

ABSOLUTE MAXIMUM RATINGS (Per Leg)

Peak Repetitive and DC Blocking Voltage	45 VOLTS
Average Forward Current $T_A = 25^\circ\text{C}$	40 AMPS
Peak Surge Current 8.3ms Pulse $T_A = 25^\circ\text{C}$	1200 AMPS
Storage and Operating Temperature	-65 to 175°C
Maximum Thermal Resistance, Junction Into Case	0.5° C/W

ELECTRICAL CHARACTERISTICS (PER LEG)

CHARACTERISTICS

SYMBOL

MAXIMUM

Instantaneous Forward Drop:

IF = 10A DC, TA = 25°C, 300ms Pulse

0.50V

IF = 20A DC, TA = 25°C, 300ms Pulse

VF1

0.60V

IF = 40A DC, TA = 25°C, 300ms Pulse

0.75V

Instantaneous Forward Drop:

IF = 20A DC, TA = 55°C, 300ms Pulse

VF2

0.67V

Reverse Leakage Current:

VR = 45V, TA = 25°C

IR1

400ua

VR = 45V, TA = 100°C

IR2

30ma

Junction Capacitance:

VR = 10V VDC, TA = 25°C, f = 1 Mhz

CJ

1600 pf

TYPICAL OPERATING CURVES

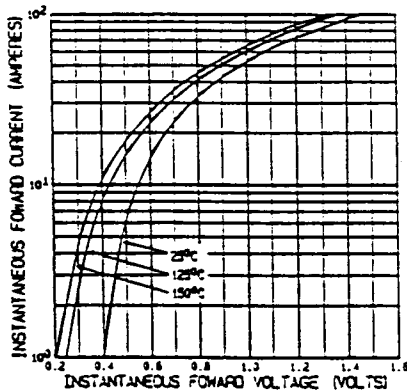


Fig. 1 - Max. Forward Voltage Drop Characteristics (Per Leg)

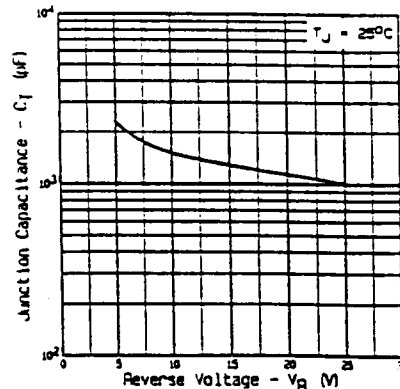


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage (Per Leg)

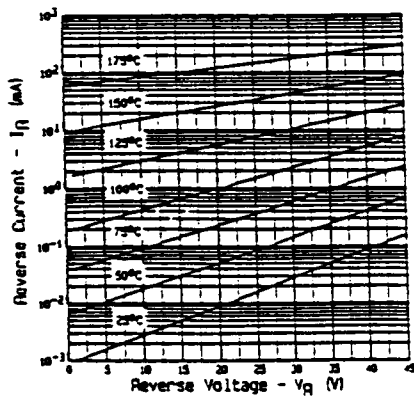


Fig. 2 - Typical Values of Reverse Current Vs. Reverse Voltage (Per Leg)

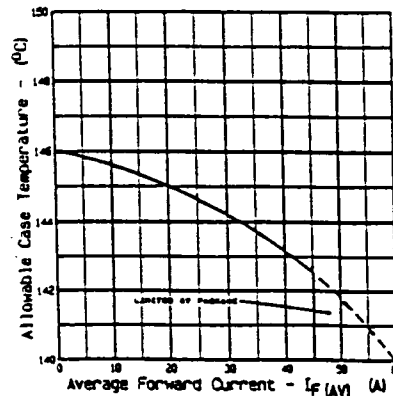


Fig. 4 - Max. Allowable Case Temperature Vs. Average Forward Current (Per Leg)