

POWER SCHOTTKY RECTIFIERS
45A Av, Up to 45V

USD4530C
USD4540C
USD4545C

FEATURES

- Economical Convenient TO-3P Package
- Insulated Mounting Hole
- Can Be Clip Mounted
- Mechanically Rugged
- Low Thermal Resistance
- Extremely Low V_F

DESCRIPTION

The USD4530C Series, in the economical, convenient TO-3P package, is specifically designed for operation in power switching circuits to frequencies in excess of 100kHz. The very low forward voltage and low recovered charge translates to extremely high efficiency making them particularly suited for low voltage switching type power supplies.

Table with 4 columns: Parameter, USD4530C, USD4540C, USD4545C. Rows include Absolute Maximum Ratings (Working Peak Inverse Voltage, D.C. Blocking Voltage, Peak Repetitive Surge Voltage, Maximum Average D.C. Output Current, etc.) and Electrical Specifications.

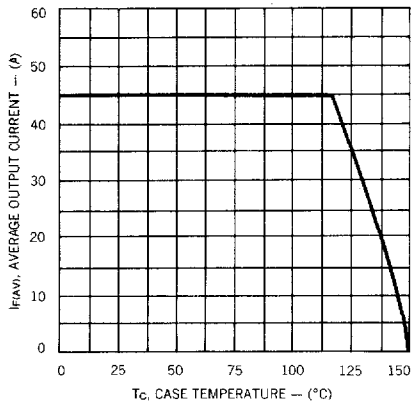
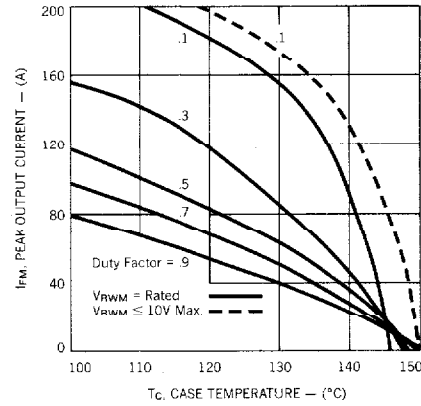
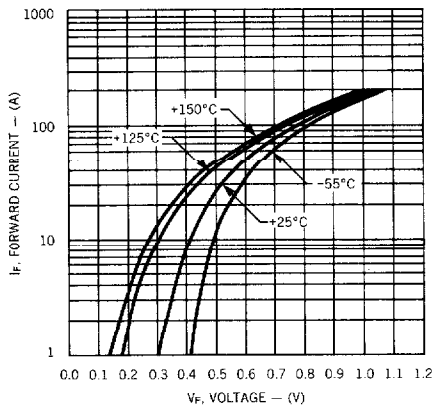
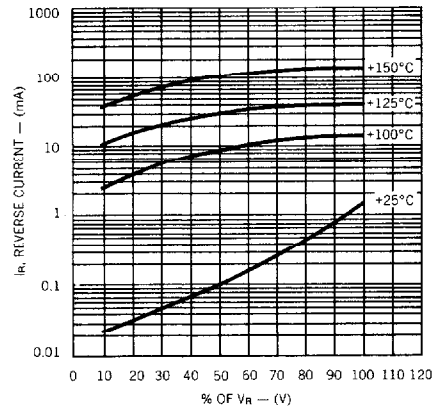
ELECTRICAL SPECIFICATIONS

Table with 6 columns: Type, V_{RRM}, Maximum Forward Voltage (V_F) at T_J = 25°C and T_J = 125°C, Maximum Reverse Current (I_R) at V_{RRM} and T_J = 125°C, Maximum Capacitance C_T at V_R = 5.0V, Voltage Rate of Change (dv/dt).

MECHANICAL SPECIFICATIONS

Technical drawings of the TO-3P package showing dimensions (A, B, C, D, E, F, G, H, J, K, L, M, N) and a table of dimensions in inches (MIN, MAX).

Microsemi Corp.
Watertown
The diode experts

Average Output Current vs Case Temperature**Peak Output Current vs Case Temperature****Typical Forward Current vs Forward Voltage****Typical Reverse Current vs Voltage****Thermal Impedance vs Pulse Width**