

POWER SCHOTTKY RECTIFIERS
90A Pk, Up to 45V

USD4530S
USD4540S
USD4545S

2

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

DESCRIPTION
The USD4530S 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.

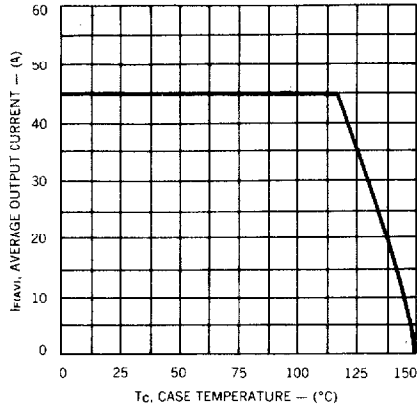
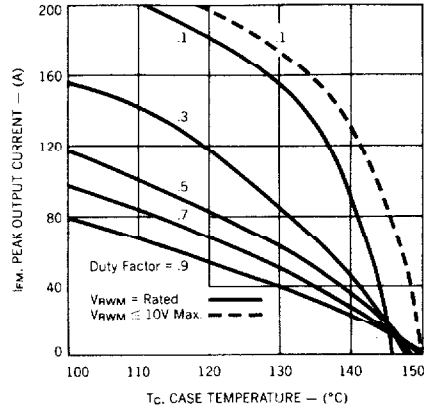
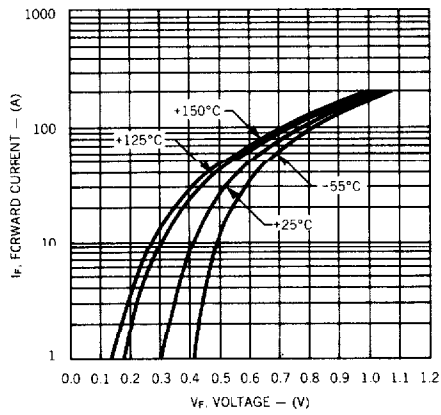
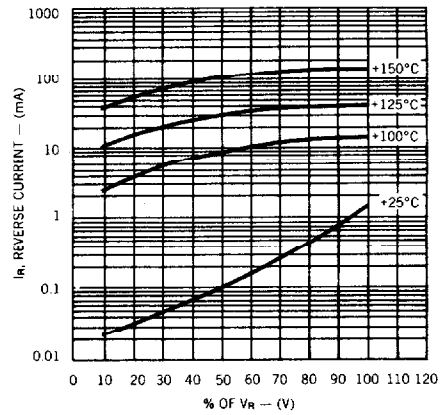
Table with 4 columns: Parameter, USD4530S, USD4540S, USD4545S. Rows include Absolute Maximum Ratings for Working Peak Reverse Voltage, D.C. Blocking Voltage, Peak Repetitive Surge Voltage, Maximum Average D.C. Output Current, Non-Repetitive Sinusoidal Surge Current, Peak Reverse Transient Current, Thermal Resistance, and Operating and Storage Temperature Range.

ELECTRICAL SPECIFICATIONS

Table with 8 columns: Type, V_RWM, Maximum Forward Voltage (V_F) at T_J = 25°C and T_J = 125°C, Maximum Reverse Current (I_R) at V_RWM and T_J = 25°C and T_J = 125°C, Maximum Capacitance C_T at V_R = 5.0V, and Voltage Rate of Change (dv/dt).

MECHANICAL SPECIFICATIONS

Technical drawing of the TO-3P package showing dimensions (A, B, C, D, E, F, G, H, J, K, L, N) and a table of dimensions in inches (MIN, MAX). Includes a 3D perspective view of the package and a note: '1. Mounting surface common to cathode'.

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**