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NTE5930 & NTE5931 Silicon Power Rectifier Diode, 70 Amp, DO5

Description:

The NTE5930 and NTE5931 are silicon power rectifier diodes in a DO5 type package designed with very low leakage current as well as good surge handling capability. These devices are ideal for a broad range of commercial uses including power supplies, ultrasonic systems, inverters, welders, emergency generators, battery chargers, DC motors, and motor controls.

Ratings and Characteristics:

| | |
|---|-------------------------------------|
| Peak Reverse Voltage, P_{RV} | |
| NTE5930, NTE5931* | 1200V |
| Maximum Forward Current (Single Phase, Half Wave, $T_C = +138^\circ\text{C}$), $I_{F(AV)}$ | 70A |
| Maximum Forward Surge Current (Single Cycle Amps), I_{FSM} | 1200A |
| Maximum Forward Voltage Drop ($I_O = 200A$, $T_C = +25^\circ\text{C}$), V_F | 1.25V |
| Maximum Reverse Current (FCA at $+150^\circ\text{C}$), I_R | 2mA |
| Fusing Current (Less than 8ms), I^2t | 6000A ² s |
| Reverse Power for Bulk Avalanche | 0.6 Joules |
| Operating Temperature Range, T_{opr} | -65° to $+190^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -65° to $+200^\circ\text{C}$ |
| Maximum Thermal Resistance, Junction-to-Case, R_{thJC} | 0.65°C/W |

Note 1. Standard polarity is cathode to case, (*) indicated anode to case.

