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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 ($I_O = 200\text{A}$, $T_C = +25^\circ\text{C}$), 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.

