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NTE5335 & NTE5338 3-Phase Bridge Rectifier

Description:

The NTE5335 and NTE5338 3-Phase bridge rectifiers incorporate highly efficient thermal management to provide high surge capability, extended life, and reliable performance. Available in an industry standard screw-mount package, these devices provide 2500V_{rms} from all terminals to the baseplate.

Features:

- High Surge Current Rectifier Circuits

Typical Applications:

- Inverter
- Inductive Heating
- Chopper

Electrical Characteristics:

Repetitive Peak Reverse Voltage ($T_J = +150^{\circ}\text{C}$, $t_p = 10\text{ms}$), V_{RRM}	600V
Maximum DC Output Current ($T_C = +85^{\circ}\text{C}$), I_O	
NTE5335	60A
NTE5338	100A
Maximum Repetitive Peak Current (at V_{RRM} , $T_J = +150^{\circ}\text{C}$), I_{RRM}	8mA
Maximum Surge Forward Current ($T_J = +25^{\circ}\text{C}$, Half Sine Wave, 10ms, $V_R = 0.6V_{RRM}$), I_{TSM}	1.5KA
Maximum I^2t for Fusing ($T_J = +25^{\circ}\text{C}$, Half Sine Wave, 10ms, $V_R = 0.6V_{RRM}$), I^2t	$9.5A^2s \cdot 10^3$
Maximum Threshold Voltage ($T_J = +150^{\circ}\text{C}$), V_{FO}	0.8V
Maximum Forward Slope Resistance ($T_J = +150^{\circ}\text{C}$), r_F	4.5m Ω
Maximum Peak Forward Voltage ($T_J = +25^{\circ}\text{C}$, $I_{FM} = 100$), V_{FM}	1.3V
Isolation Voltage (50Hz RMS, $t = 1\text{min}$, $I_{SOL} = 1\text{mA Max}$), V_{ISOL}	2500V _{rms}
Maximum Thermal Resistance (Single Side Cooled), Junction-to-Case, R_{thJC}	0.3 $^{\circ}\text{C/W}$
Maximum Thermal Resistance (Single Side Cooled), Case-to-Heat Sink, R_{thCH}	0.05 $^{\circ}\text{C/W}$
Storage Temperature Range, T_{stg}	-40 $^{\circ}$ to +125 $^{\circ}\text{C}$

