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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<sub>rms</sub> from all terminals to the baseplate.

### Features:

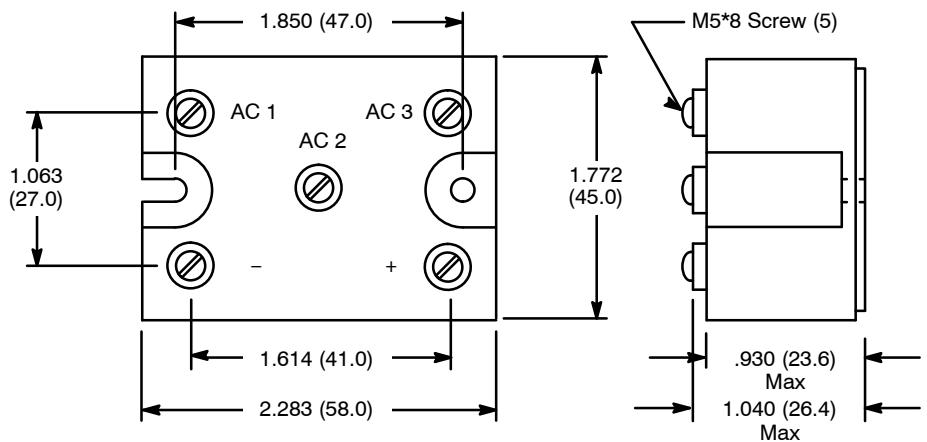
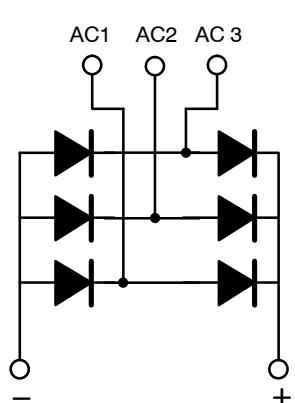
- High Surge Current Rectifier Circuits

### 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, $V_R = 0.6V_{RRM}$ ), $I_{TSW}$ 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 <sup>2</sup> s*10 <sup>3</sup>
Maximum Threshold Voltage ( $T_J = +150^\circ\text{C}$ ), $V_{FO}$ .....	0.8V
Maximum Forward Slope Resistance ( $T_J = +150^\circ\text{C}$ ), $r_F$ .....	4.5mΩ
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 <sub>rms</sub>
Maximum Thermal Resistance (Single Side Cooled), Junction-to-Case, $R_{thJC}$ .....	0.3°C/W
Maximum Thermal Resistance (Single Side Cooled), Case-to-Heat Sink, $R_{thCH}$ .....	0.05°C/W
Storage Temperature Range, $T_{stg}$ .....	-40° to +125°C



### Alternate Terminal Placement

