

NTE627 & NTE628 Silicon Rectifier Fast Recovery, Dual, Center Tap

Description:

The NTE627 and NTE628 are dual, fast recovery silicon rectifiers in a TO220 type package designed for special applications such as DC power supplies, inverters, converters, ultrasonic systems, choppers and low RF interference.

Features:

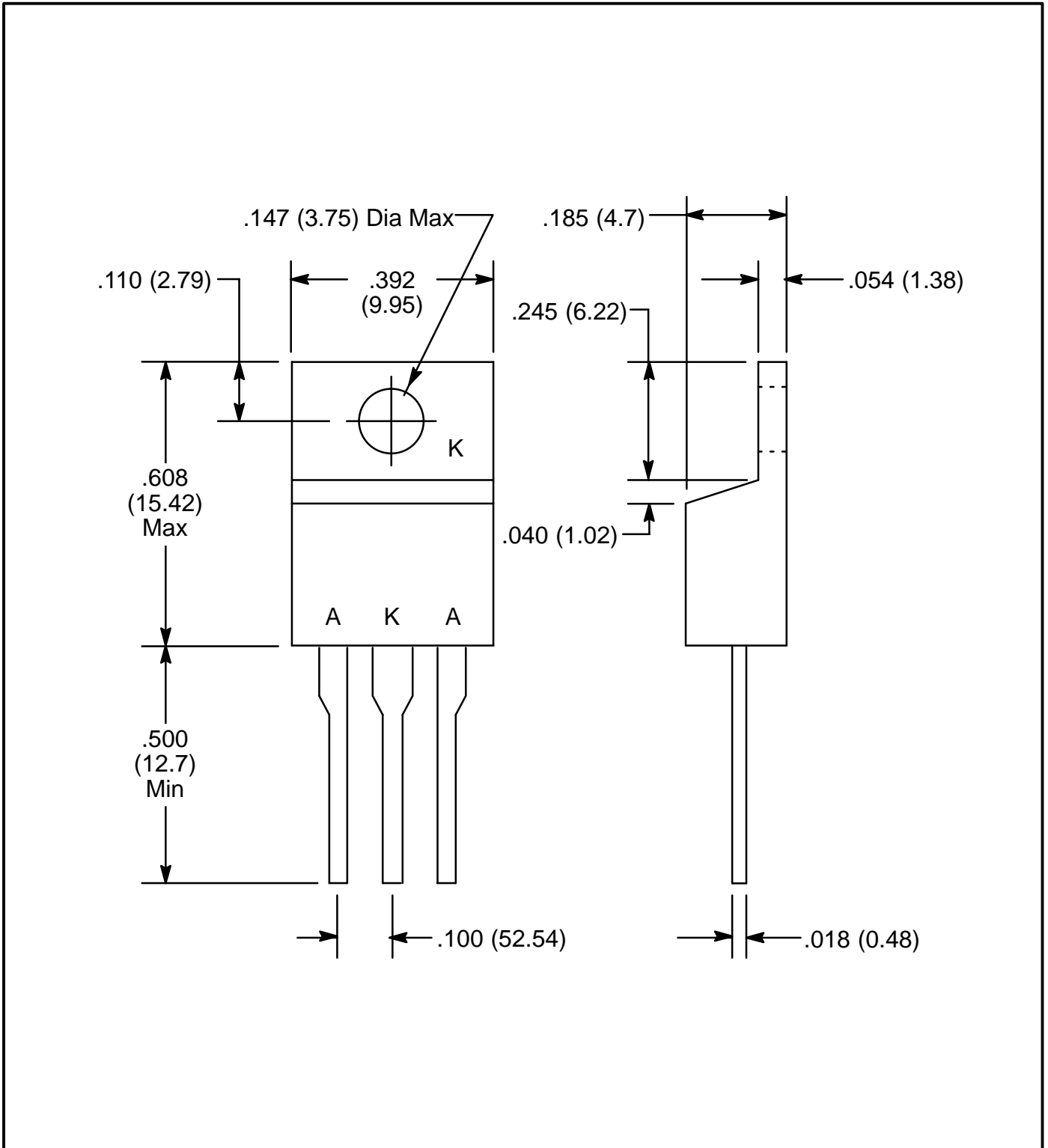
- Low Forward Voltage
- High Switching Capability, Low Switching Noise
- High Voltage Capability
- Low Power Loss, High Reliability
- High Surge Capability
- Low Leakage Current

Absolute Maximum Ratings:

| | |
|--|-------------------------------------|
| Peak Repetitive Reverse Voltage, V_{RRM} | |
| NTE627 | 200V |
| NTE628 | 600V |
| Working Peak Reverse Voltage, V_{RWM} | |
| NTE627 | 200V |
| NTE628 | 600V |
| DC Blocking Voltage, V_R | |
| NTE627 | 200V |
| NTE628 | 600V |
| RMS Reverse Voltage, $V_{R(RMS)}$ | |
| NTE627 | 140V |
| NTE628 | 420V |
| Average Rectifier Forward Current (Rated V_R , $T_C = +150^\circ\text{C}$), $I_{F(AV)}$ | |
| Per Diode | 6A |
| Total Device | 12A |
| Non-Repetitive Peak Surge Current, I_{FSM} (8.3ms Single half Sine-Wave Superimposed on Rated Load) | 120A |
| Operating Junction Temperature Range (Reverse Voltage Applied), T_J | -65° to $+175^\circ\text{C}$ |
| Storage Temperature Range (Reverse Voltage Applied), T_{stg} | -65° to $+175^\circ\text{C}$ |

Electrical Characteristics:

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-------------------------------|----------|--|-----|-----|-----|---------|
| Instantaneous Forward Voltage | V_F | $I_F = 6A$ | – | – | 1.3 | V |
| Instantaneous Reverse Current | I_R | At Rated V_R , $T_C = +25^\circ C$ | – | – | 10 | μA |
| | | At Rated V_R , $T_C = +100^\circ C$ | – | – | 250 | μA |
| Reverse Recovery Time | t_{rr} | $I_F = 0.5A, I_R = 1A, i_{rr} = 0.25A$ | – | – | 250 | ns |



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