

NTE6013 Silicon Industrial Rectifier 20 Amp

Description:

The NTE6013 is a 20 Ampere (RMS) silicon rectifier in an electrically isolated TO220 type package with a voltage rating of 600V for use in common anode or common cathode circuits. This device features a glass–passivated junction to ensure long term reliability and stability. In addition, glass offers a rugged, reliable barrier against junction contamination.

Features:

- Electrically–Isolated Package
- High Voltage Capabilities: V_{RRM} = 600V
- High Surge Capabilities (Up to 300 Amps)
- Glass–Passivated Junction

Electrical Specifications: (Note 1)
Minimum Peak Repetitive Reverse Voltage, V _{RRM}
Minimum DC Blocking Voltage, V _R
Maximum Average Forward Current, I _{F(AV)}
Maximum RMS Forward Current, I _{F(RMS)}
Peak One Cycle Surge Current, I _{FSM}
60Hz 300A 50Hz 255A
Maximum Peak Reverse Current, I _{RM}
$T_C = +25^{\circ}C$
$T_{C} = +125^{\circ}C$
Maximum Peak Forward Voltage ($V_{RRM} = 600V$, $T_C = +25^{\circ}C$), V_{FM}
RMS Surge (Non–Repetitive) Forward Current for 8.3mS for Fusing, I ² t
Operating Temperature Range, T _{opr} 40° to +125°C
Storage Temperature Range, T _{stg} 40° to +125°C
Lead Temperature (During Soldering, 1/16" from case for 10sec), T _L +230°C
Typical Thermal Resistance (Steady State), Junction-to-Case, R _{thJC} 2.5°C/W
Note 1. $T_C = T_1$ for test conditions.

Note 1. $T_C = T_J$ for test conditions.

Note 2. Electrically isolated TO220 devices will withstand a high potential test of 2500VAC RMS from leads to case over the operating temperature range.

