New Jersey Semi-Conductor Products, Inc.

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# RECTIFIERS

## High Efficiency, 30A Center-Tap

**UES2604–UES2606**

**FEATURES**
- Very Low Forward Voltage
- Very Fast Switching Speed
- Convenient Package
- High Surge
- Low Thermal Resistance
- Mechanically Rugged
- Both Polarities Available

**ABSOLUTE MAXIMUM RATINGS**

Peak Inverse Voltage, UES2604 ..... 200V
Peak Inverse Voltage, UES2605 ..... 300V
Peak Inverse Voltage, UES2606 ..... 400V
Maximum Average D.C. Output Current @ $T_C$ = 100°C ..... 30A
Surge Current, 8.3nSec ..... 300A
Thermal Resistance, Junction to Case ..... 1°C/W
Operating and Storage Temperature Range ..... −55 to +150°C

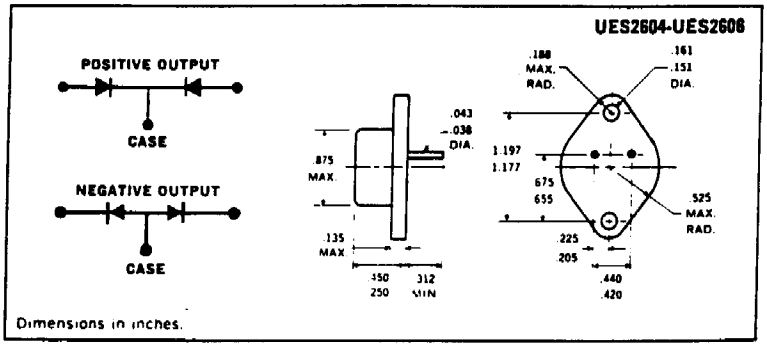


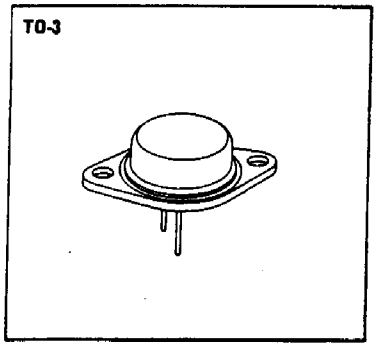
**ELECTRICAL SPECIFICATIONS, PER LEG**

| Type | PIV | Maximum Forward Voltage | | Maximum Reverse Current | | Maximum Reverse Recovery Time* |
|---|---|---|---|---|---|---|
| | | $T_C$ = 25°C | $T_C$ = 125°C | $T_C$ = 25°C | $T_C$ = 125°C | |
| UES2604<br>UES2605<br>UES2606 | 200V<br>300V<br>400V | 1.25V<br>@ 15A<br>$t_p$ = 300μS | 1.15V<br>@ 15A<br>$t_p$ = 300μS | 50μA | 10mA | 50nS |

*Measured in circuit $I_F$ = ½A, $I_R$ = 1A, $I_{REC}$ = ¼A

**MECHANICAL SPECIFICATIONS**




**Note:**
**Standard polarity is positive output.**
**For reverse polarity (negative output) add suffix "R", ie. UES2604R.**

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

**Quality Semi-Conductors**