



T-03-17

16 Amp Schottky Rectifier 150°C MAX T_J

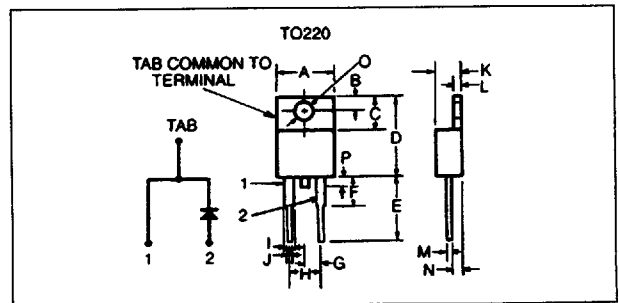
20 Volt, 35 Volt, and 45 Volt V_{RR}
 16 Amps average output current I_O
 Plastic T0220 package

These units are designed to provide an economical 16 amp Schottky output. They should be used in high frequency power supplies where efficiency and reliability are of the utmost importance.



| LTR. | INCHES | MILLIMETERS |
|------|-----------|-------------|
| A | 0.415 Max | 10.54 Max |
| B | .108 | 2.74 |
| C | .248 | 6.3 |
| D | 0.605 Max | 15.37 Max |
| E | 0.552 | 14.02 |
| F | 0.240 Max | 6.1 Max |
| G | 0.100 | 2.54 |
| H | 0.200 | 5.08 |
| I | 0.050 | 1.27 |
| J | 0.032 | 0.81 |
| K | .190 Max | 4.83 Max |
| L | 0.050 | 1.27 |
| M | 0.022 | 0.56 |
| N | 0.105 | 2.67 |
| O | 0.143 | 3.63 |
| P | .135 Max | 3.43 Max |

Inch tolerances ± .005



MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

| RATINGS | SYMBOL | VSK920 | VSK935 | VSK945 | UNITS |
|--|-----------------------------------|--------|-------------|--------|-------|
| DC Blocking Voltage | V _{RM} | | | | Volts |
| Working Peak Reverse Voltage | V _{RRM} | 20 | 35 | 45 | Volts |
| Peak Repetitive Reverse Voltage | V _{RRM} | | | | Volts |
| RMS Reverse Voltage | V _{R(RMS)} | 14 | 25 | 32 | Volts |
| Average Rectified Forward Current T _C = 100°C | I _O | | 16 | | Amps |
| Peak Surge Current (non rep) at 60Hz, 1/2 Cycle | I _{FSM} | | 300 | | Amps |
| Junction Operating & Storage Temperature Range | T _J , T _{STG} | | -65 to +150 | | °C |
| Thermal Resistance, Junction-To-Case | R _{θJC} | | 3.0 | | °C/W |

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise specified)

| CHARACTERISTICS | SYMBOL | VSK920 | VSK935 | VSK945 | UNITS |
|--|----------------|--------|--------------|--------|-------|
| Maximum Instantaneous Forward Voltage Drop (Fig. 2) I _F = 16A @ T _J = 25°C I _F = 16A @ T _J = 100°C | V _F | | .56 .52 | | Volts |
| Maximum Instantaneous Reverse Current (Fig. 1) Rated V _{RM} @ T _J = 25°C Rated V _{RM} @ T _J = 100°C | I _R | | 10.0 75.0 | | mA |

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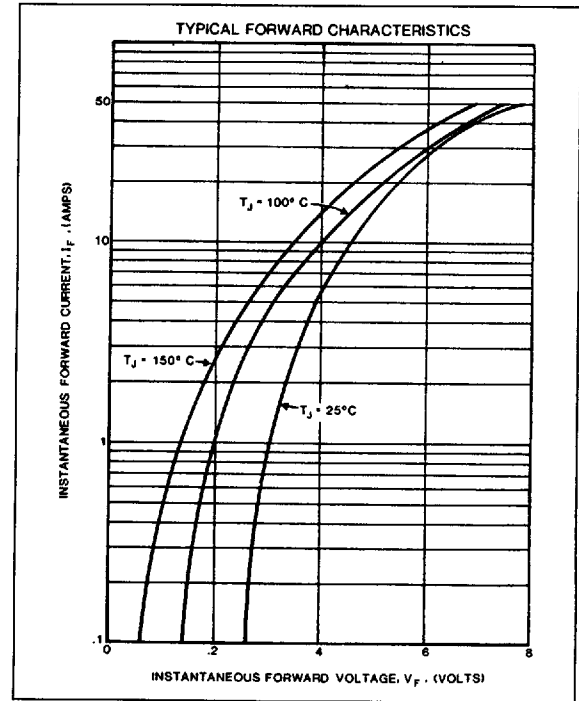
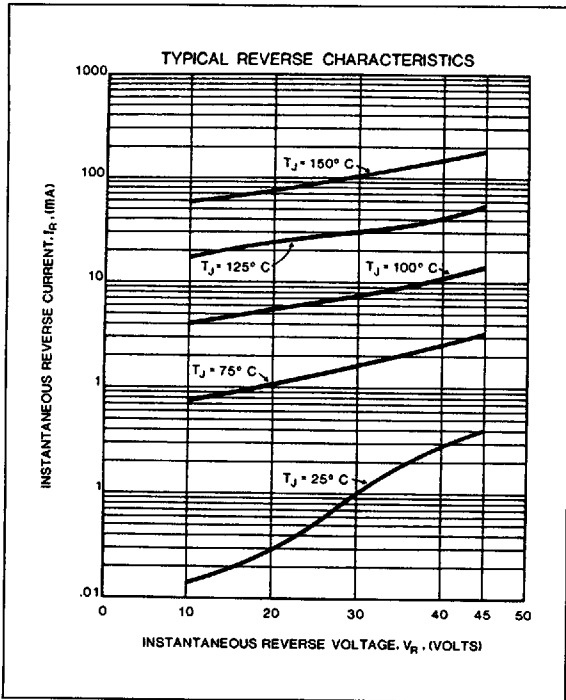


FIGURE 1

FIGURE 2

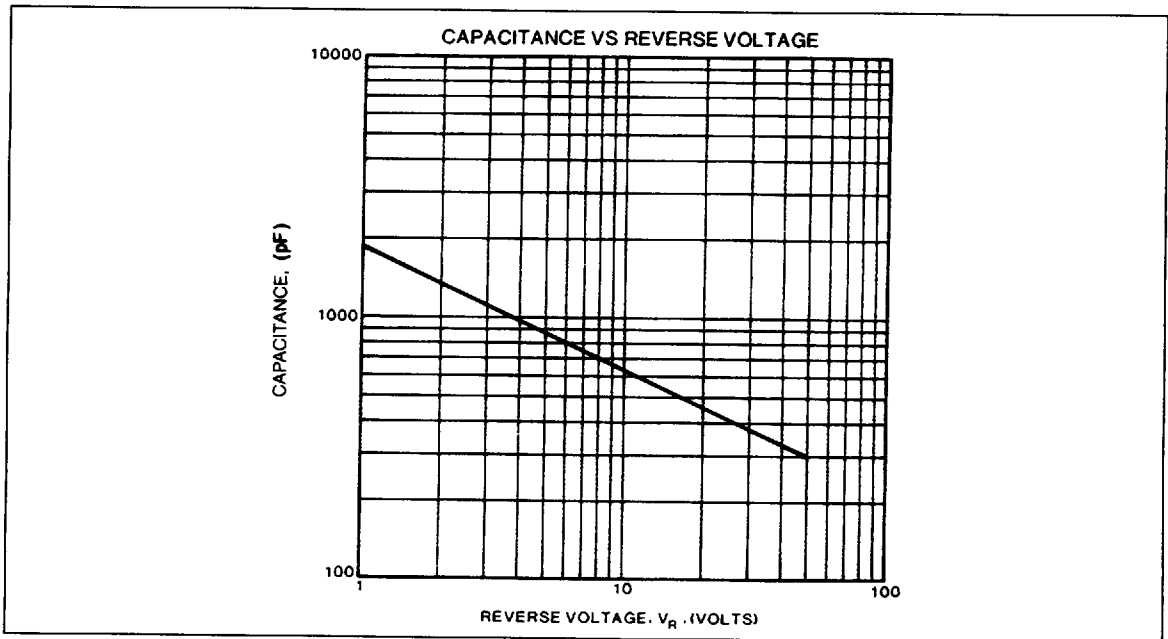


FIGURE 3