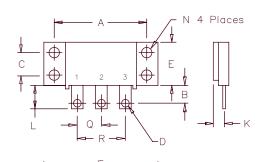
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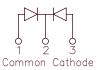
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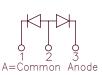
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Schottky Powermod FST16230









Baseplate: Nickel plated copper;

electrically isolated Pins: Nickel plated copper

| | Industry Part Number | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|-----------|-------------------------|---------------------------------|------------------------------------|
| FST16230* | 162CMQ030 | 30V | 30V |
| | | | |

*Add the Suffix A for Common Anode, D for Doubler

| Dim. | Inches | Millimeters | | |
|---------|--------|-------------|---------|--------|
| Min. | Max. | Min. | Max. | Notes |
| A 1.995 | 2.005 | 50.67 | 50.93 | |
| B 0.300 | 0.325 | 7.62 | 8.26 | |
| C 0.495 | 0.505 | 12.57 | 12.83 | |
| D 0.182 | 0.192 | 4.62 | 4.88 | Dia. |
| E 0.990 | 1.010 | 25.15 | 25.65 | |
| F 2.390 | 2.410 | 60.71 | 61.21 | |
| G 1.500 | 1.525 | 38.10 | 38.70 | |
| H 0.120 | 0.130 | 3.05 | 3.30 | |
| J | 0.400 | | 10.16 | |
| K 0.240 | 0.260 | 6.10 | 6.60 to | Lead G |
| L 0.490 | 0.510 | 12.45 | 12.95 | _ |
| M 0.330 | 0.350 | 8.38 | 6.90 | |
| N 0.175 | 0.195 | 4.45 | 4.95 | Dia. |
| P 0.035 | 0.045 | 0.89 | 1.14 | |
| Q 0.445 | 0.455 | 11.30 | 11.56 | |
| R 0.890 | 0.910 | 22.61 | 23.11 | |

TO - 249

- Schottky Barrier Rectifier
- Guard Ring for Reverse Protection
- VRRM 30 Volts
- High Surge Capacity
- Reverse Energy Tested
- ROHS Compliant

Electrical Characteristics

F(AV) 160 Amps Average forward current per pkg F(AV) 80 Amps Average forward current per leg İFSM 1000 Amps Maximum surge current per leg Max repetitive peak reverse current per leg R(OV) 2 Amps VFM .55 Volts Max peak forward voltage per leg VFМ .59 Volts Max peak forward voltage per leg RМ 300 mA Max peak reverse current per leg Max peak reverse current per leg ŖМ 1 mA

 $^{T}C = 83^{\circ}C$, Square wave, $R \Theta JC = 0.5^{\circ}C/W$ $^{T}C = 83^{\circ}C$, Square wave, $R \Theta JC = 1.0^{\circ}C/W$ 8.3 ms, half sine $T_J = 150^{\circ}\text{C}$ f = 1 KHz, 25°C, 1µsec Square wave $T_J = 125^{\circ}\text{C}*$

 1 FM = 80A: T J = 25°C* VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TJ = 25°C

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

Thermal and Mechanical Characteristics

2400 pF

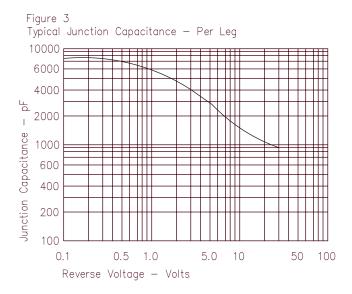
TSTG -55°C to 175°C -55°C to 150°C Storage temp range ТJ Operating junction temp range Maximum thermal resistance per leg $\mathsf{R} \ominus \mathsf{JC}$ 1.0°C/W Junction to case $\mathsf{R} \; \theta \mathsf{JC}$ 0.5°C/W Junction to case Maximum thermal resistance per pkg. Recs 0.1°C/W Typical thermal resistance (greased) Case to sink 15 - 20 inch pounds Mounting torque Weight 2.5 ounces (71 grams) typical

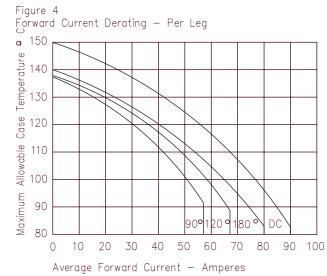


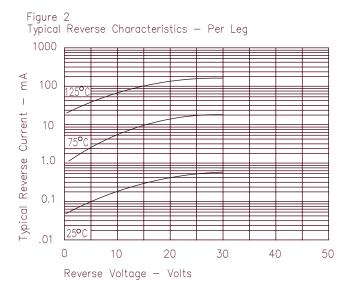
Typical junction capacitance per leg

FST16230

Figure 1 Typical Forward Characteristics - Per Leg 10000 8000 6000 4000 2000 1000 800 600 400 Instantaneous Forward Current – Amperes .2 .4 .6 .8 1.0 1.2 1.4 1.6 Instantaneous Forward Voltage — Volts









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