

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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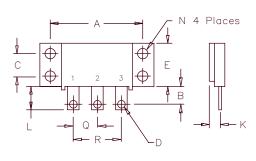
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

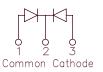


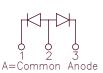


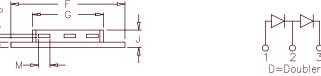


Schottky Powermod FST16230









Millimeters Dim. Inches Max. Min. Max. Notes Min. 2.005 50.67 50.93 1.995 8.26 B 0.300 0.325 7.62 C 0.495 0.505 12.83 12.57 4.88 Dia. D 0.182 0.192 4 62 E 0.990 25.15 25.65 1.010 F 2.390 2.410 60.71 61.21 G 1.500 1.525 38.10 38.70 3.30 H 0.120 0.130 3.05 0.400 10.16 K 0.240 0.260 6.10 6.60 to Lead Q 12.45 12.95 L 0.490 0.510 0.350 M 0.330 8.38 6.90 N 0.175 4.95 Dia 0.195 4 45 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

Notes:

Baseplate: Nickel plated copper;

electrically isolated Pins: Nickel plated copper

Microsemi Industry Working Peak Repetitive Peak Catalog Number Part Number Reverse Voltage Reverse Voltage

FST16230* 162CMQ030 30V 30V

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

T0 - 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 VFM .59 Volts Max peak forward voltage per leg RM 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 $^{T}J=150^{\circ}C$ $^{f}=1$ KHz, $^{2}5^{\circ}C$, $^{1}\mu sec$ Square wave $^{I}FM=80A$: $^{T}J=125^{\circ}C*$

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

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

Thermal and Mechanical Characteristics

2400 pF

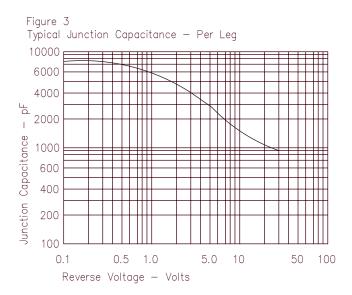
TSTG -55°C to 175°C -55°C to 150°C Storage temp range ΤJ Operating junction temp range Maximum thermal resistance per leg $\mathsf{R} \ominus \mathsf{JC}$ 1.0°C/W Junction to case $\mathsf{R} \; \ominus \mathsf{JC}$ 0.5°C/W Maximum thermal resistance per pkg. Junction to case Recs 0.1°C/W Typical thermal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

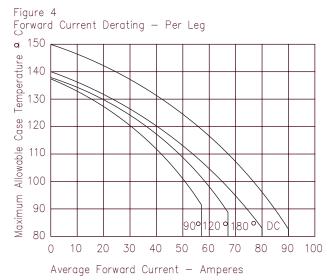


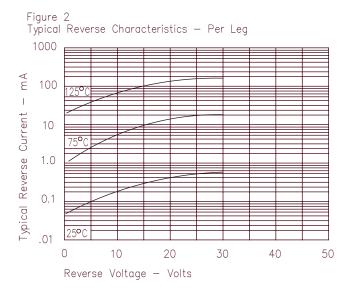
Typical junction capacitance per leg

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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