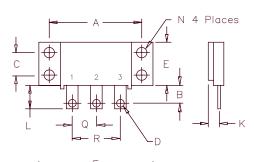
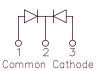
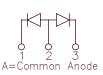
# Schottky Powermod FST16230











lotes:

Baseplate: Nickel plated copper;

electrically isolated Pins: Nickel plated copper

	ГШ	is. Mickel plated cop	hei
Microsemi	Industry	Working Peak	Repetitive Peak

FST16230\* 162CMQ030 30V 30V

Catalog Number Part Number Reverse Voltage Reverse Voltage

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

Dim	Inches	nches Millimeters			
Min.	Max.	Min.	Max.	Notes	
				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 (	
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		

### 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 FSM 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 RM 300 mA Max peak reverse current per leg Max peak reverse current per leg ŖМ 1 mA

TC = 83°C, Square wave, R  $\theta$ JC = 0.5°C/W TC = 83°C, Square wave, R  $\theta$ JC = 1.0°C/W 8.3 ms, half sine TJ = 150°C f = 1 KHz, 25°C, 1 $\mu$ sec Square wave IFM = 80A: TJ = 125°C\*

TFM = 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

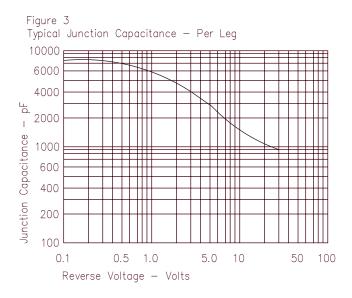
TSTG -55°C to 175°C -55°C to 150°C Storage temp range ТJ Operating junction temp range Maximum thermal resistance per leg  $\mathsf{R} \ominus \mathsf{JC}$ 1.0°C/W Junction to case  $\mathsf{R} \; \theta \mathsf{JC}$ 0.5°C/W Maximum thermal resistance per pkg. Junction to case Recs 0.1°C/W Typical thermal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

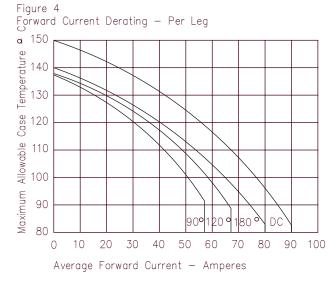


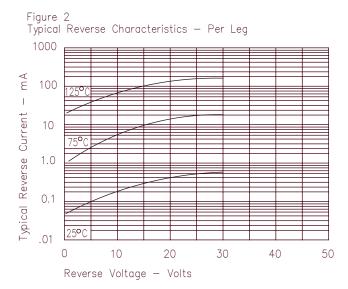
Typical junction capacitance per leg

## 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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