FST8230EL

80 Amp
Schottky Barrier
Rectifier
30 Volts

Features

- Guard ring for transient protection
- Low Forward Voltage
- High surge capacity
- High current capability

Maximum Ratings

- Operating Temperature: -40°C to +150°C
- Storage Temperature: -40°C to +150°C
- Thermal Resistance; 0.42°C/W Junction To Case
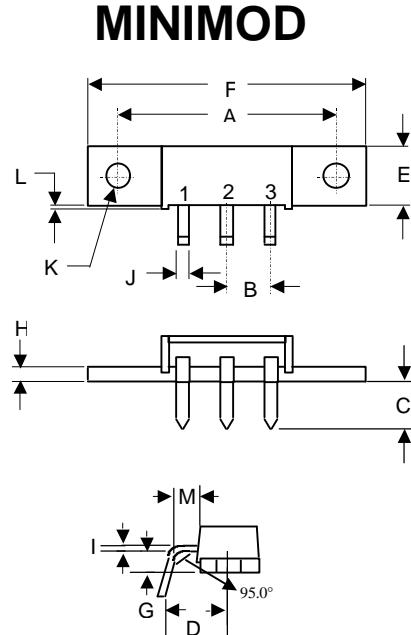
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST8230EL	30V	-----	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	80 A	$T_C = 110°C$
Peak Forward Surge Current	I_{FSM}	800A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 82CNQ030A	V_F	.47 V	$I_{FM} = 40.0A$; $T_J = 25°C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5mA 280mA	$T_J = 25°C$ $T_J = 125°C$

*Pulse Test: Pulse Width 300μsec, Duty Cycle 2%
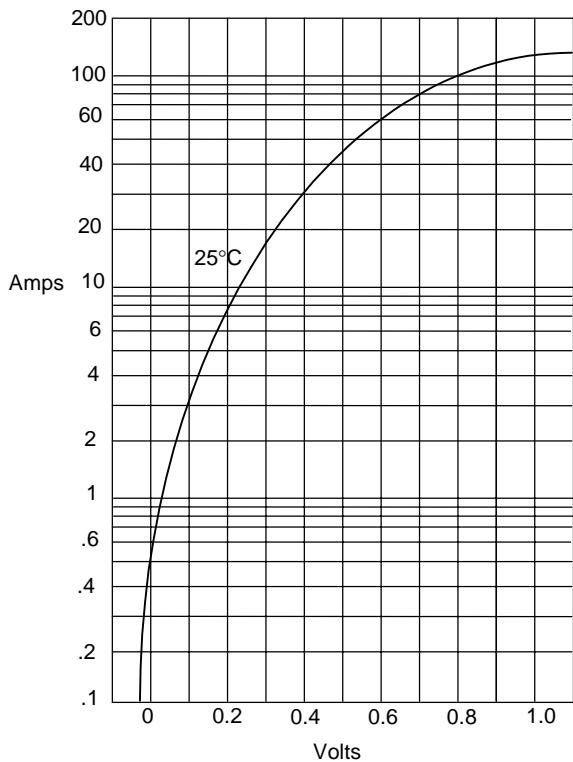
* Junction Temperature (maximum):+ 150°C

MINIMOD

| DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.180	1.195	29.97	30.35	
B	.200	REF	5.08	REF	2PL
C	.252	----	6.40	----	
D	.267	.307	6.80	7.80	
E	.350	.370	8.89	9.40	
F	1.490	1.510	37.85	38.35	
G	.130		3.30		REF
H	.088	.098	2.24	2.49	
I	.031		0.80		REF
J	.065	.085	1.65	2.16	
K	.151	.161	3.84	4.09	Ø
L	.015	.025	0.38	0.64	
M	.098		2.50		REF
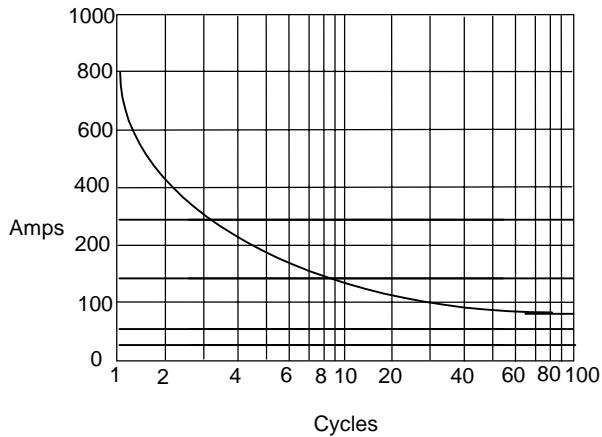
FST8230EL

Figure 1
Typical Forward Characteristics

Amps

25°C
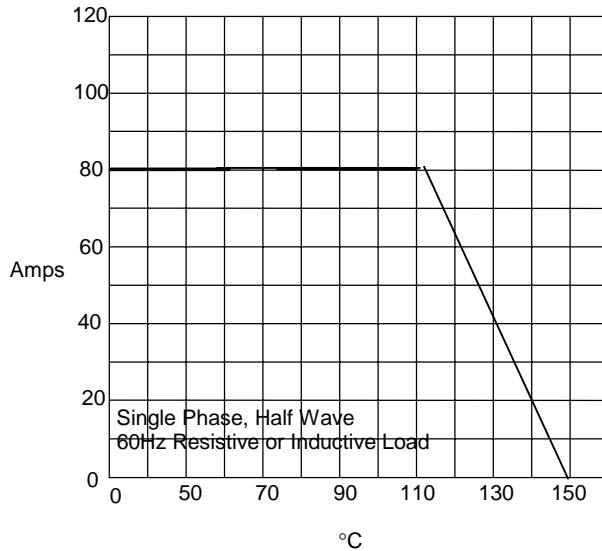
Volts

Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve

Amps

Single Phase, Half Wave
60Hz Resistive or Inductive Load

°C

Average Forward Rectified Current - Amperes *versus*
Case Temperature - °C

Figure 3
Peak Forward Surge Current

Amps
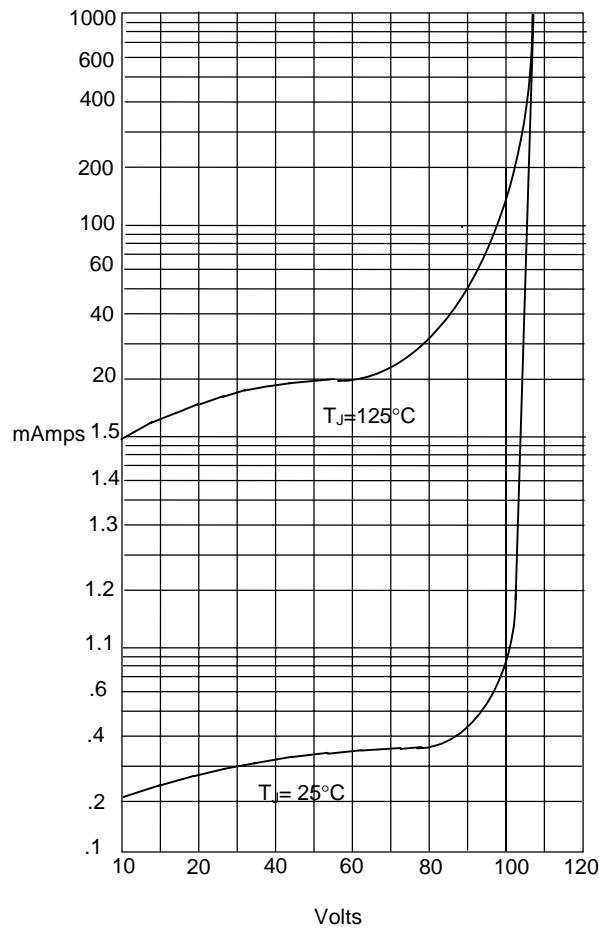
Cycles

Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Figure 4
Typical Reverse Characteristics

mAmps

T_J=125°C

T_J= 25°C

Volts

Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts