



Micro Commercial Components
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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

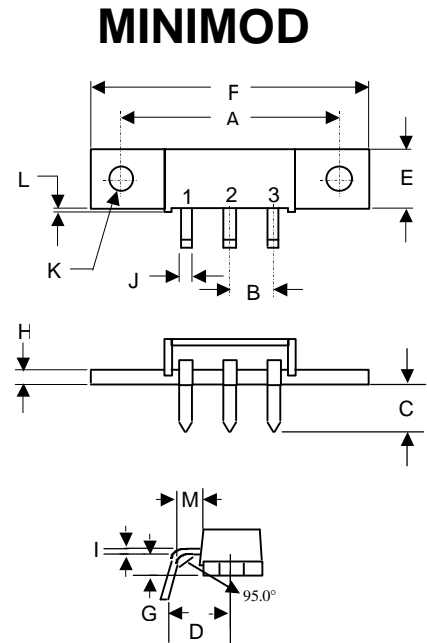
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST8230EL	30V	-----	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

* Junction Temperature (maximum):+ 150C



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
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

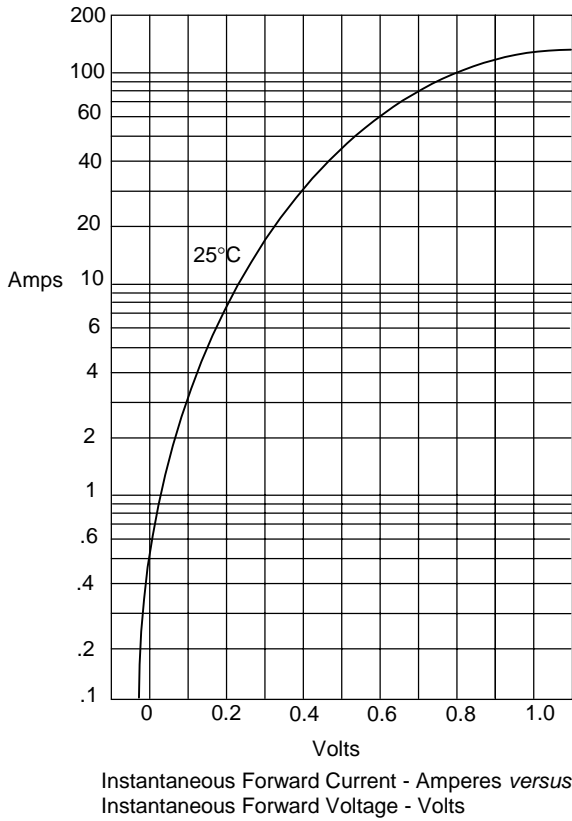


Figure 3
Peak Forward Surge Current

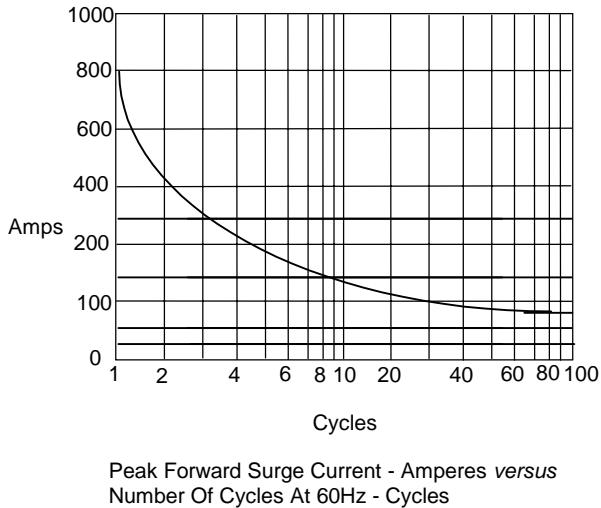


Figure 2
Forward Derating Curve

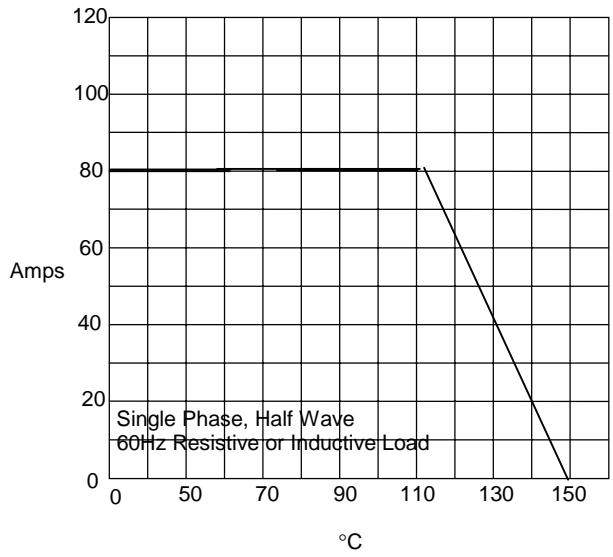


Figure 4
Typical Reverse Characteristics

