



Micro Commercial Components  
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## FST6210 THRU FST6220

### Features

- Metal of siliconrectifier, majonty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability

### Maximum Ratings

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------------------------------|---------------------|-----------------------------|
| FST6210         | 10V                                    | 7V                  | 10V                         |
| FST6215         | 15V                                    | 10.5V               | 15V                         |
| FST6220         | 20V                                    | 14V                 | 20V                         |

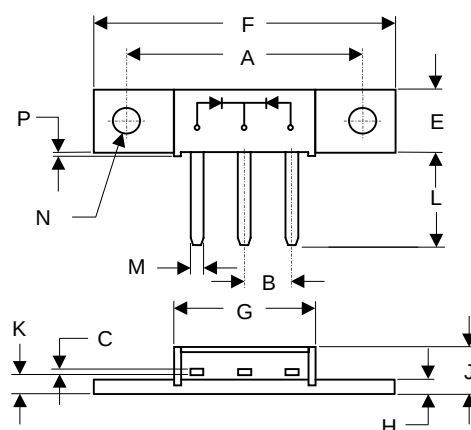
### Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |      |                                             |
|---------------------------------------------------------|-------------|------|---------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 60 A | $T_A = 105^\circ\text{C}$                   |
| Peak Forward Surge Current                              | $I_{FSM}$   | 600A | 8.3ms, half sine                            |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | .43V | $I_{FM} = 30A;$<br>$T_A = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 3mA  | $T_A = 25^\circ\text{C}$                    |

\*Pulse Test: Pulse Width 300μsec, Duty Cycle 1%

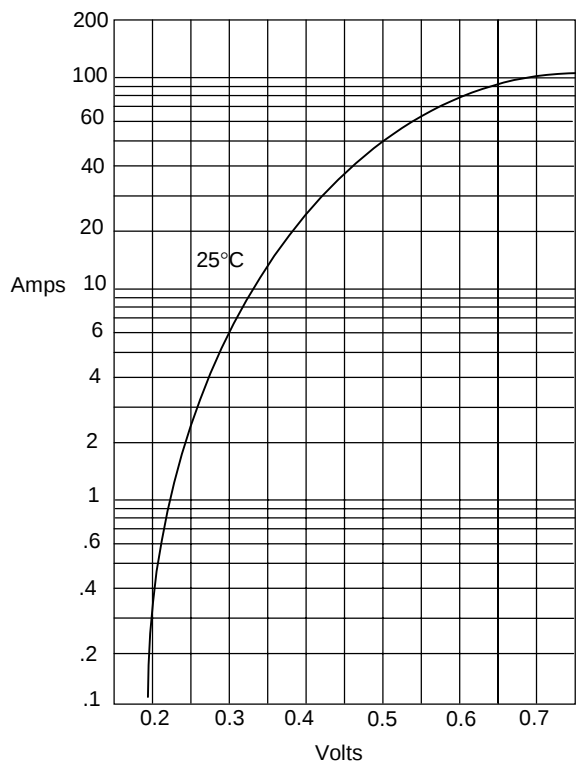
### 60 Amp Schottky Barrier Rectifier 10 to 20 Volts

#### MINIMOD



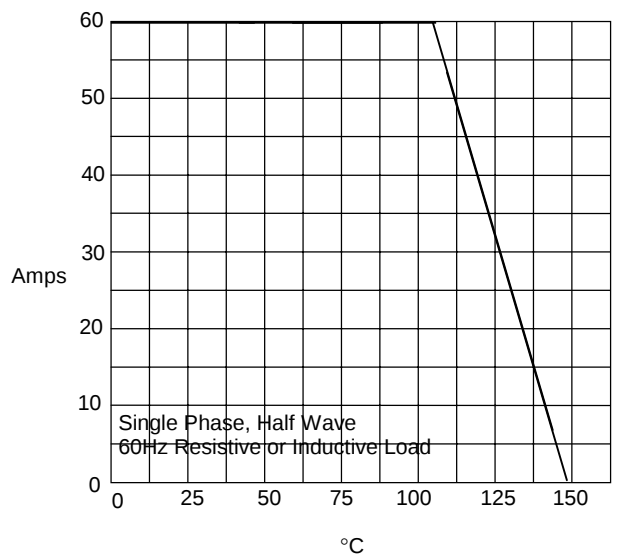
| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 1.180  | 1.195 | 29.97 | 30.35 |      |
| B   | .200   | REF   | 5.08  | REF   | 2PL  |
| C   | .027   | .037  | 0.69  | 0.94  |      |
| E   | .350   | .370  | 8.89  | 9.40  |      |
| F   | 1.490  | 1.510 | 37.85 | 38.35 |      |
| G   | .695   | .715  | 17.65 | 18.16 |      |
| H   | .088   | .098  | 2.24  | 2.49  |      |
| J   | .240   | .260  | 6.10  | 6.60  |      |
| K   | .115   | .135  | 2.92  | 3.43  |      |
| L   | .460   | .480  | 11.68 | 12.19 |      |
| M   | .065   | .085  | 1.65  | 2.16  |      |
| N   | .151   | .161  | 3.84  | 4.09  | Ø    |
| P   | .015   | .025  | 0.38  | 0.64  |      |

Figure 1  
Typical Forward Characteristics



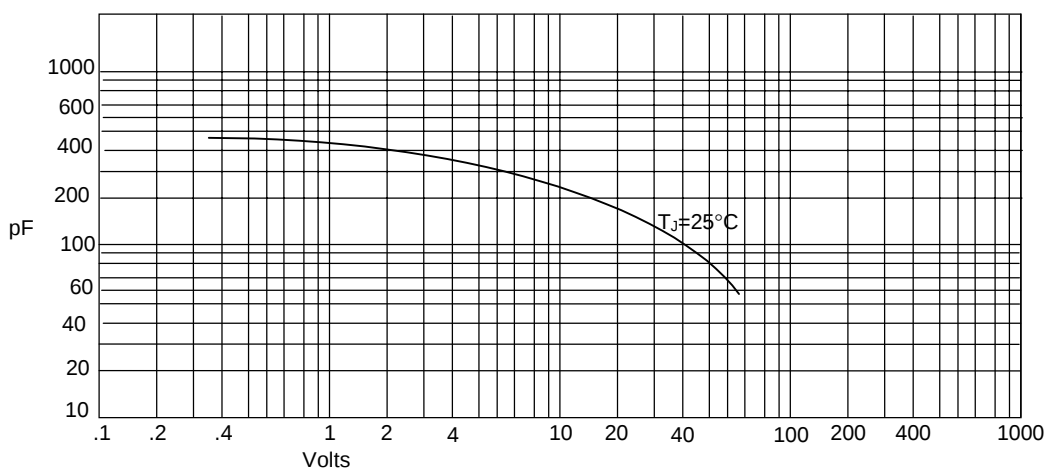
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



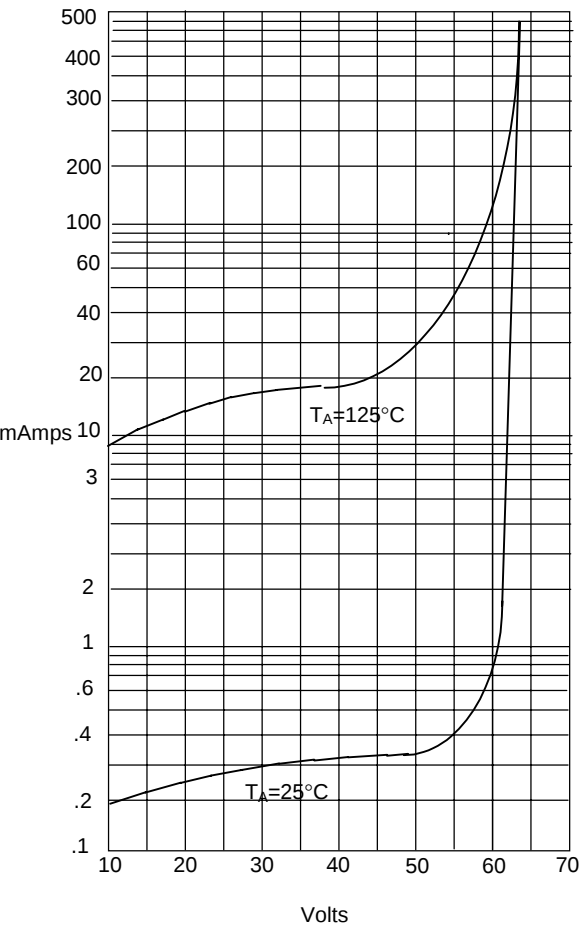
Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



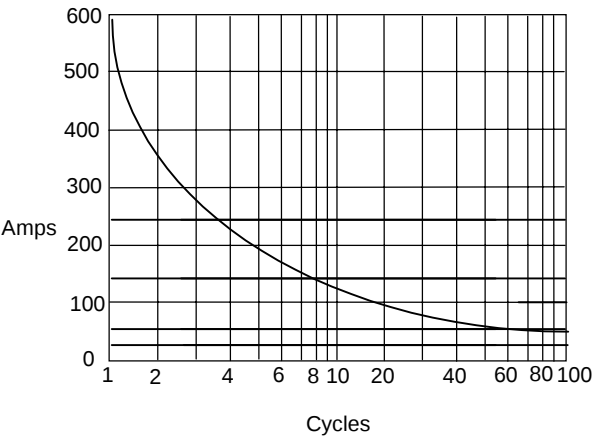
Junction Capacitance - pF versus  
Reverse Voltage - Volts

Figure 4  
Typical Reverse Characteristics



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

Figure 5  
Peak Forward Surge Current



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