



**Transys**  
Electronics  
LIMITED

**FST6210SL  
THRU  
FST62100SL**

**SCHOTTKY DIODES MODULE TYPE 60A**

**Features**

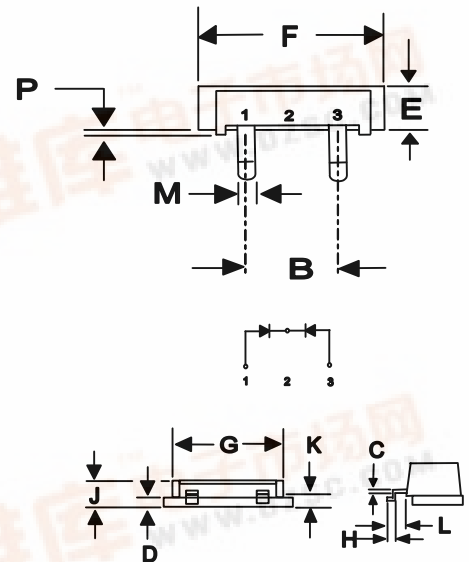
High Surge Capability  
Types Up to 100V  $V_{RRM}$

**60Amp Rectifier  
10-100 Volts**

**Maximum Ratings**

Operating Temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$   
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------|--|---------------------|-----------------------------|
| FST6210SL   | 10V                                    | 7V                  | 10V                         |
| FST6215SL   | 15V                                    | 10V                 | 15V                         |
| FST6220SL   | 20V                                    | 14V                 | 20V                         |
| FST6230SL   | 30V                                    | 21V                 | 30V                         |
| FST6235SL   | 35V                                    | 25V                 | 35V                         |
| FST6240SL   | 40V                                    | 28V                 | 40V                         |
| FST6245SL   | 45V                                    | 32V                 | 45V                         |
| FST6260SL   | 60V                                    | 42V                 | 60V                         |
| FST6280SL   | 80V                                    | 56V                 | 80V                         |
| FST62100SL  | 100V                                   | 70V                 | 100V                        |



| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | -----  | ----- | ----- | ----- |      |
| B   | .400   | NOM   | 10.16 | NOM   | 2PL  |
| C   | .027   | .037  | 0.69  | 0.94  |      |
| D   | .088   | .098  | 2.24  | 2.49  |      |
| E   | .350   | .370  | 8.89  | 9.40  |      |
| F   | .777   | .797  | 19.74 | 20.24 |      |
| G   | .695   | .715  | 17.65 | 18.16 |      |
| H   | .104   | .124  | 2.64  | 3.15  |      |
| J   | .240   | .260  | 6.10  | 6.60  |      |
| K   | .115   | .135  | 2.92  | 3.43  |      |
| L   | .230   | .250  | 5.84  | 6.35  |      |
| M   | .065   | .085  | 1.65  | 2.16  |      |
| P   | .015   | .025  | 0.38  | 0.64  |      |

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

|   |                 |                         |  |
|---|-----------------|-------------------------|--|
| Average Forward Current (Per pkg)   | $I_{F(AV)}$     | 60A                     | $T_C = 105^{\circ}\text{C}$  |
| Peak Forward Surge Current (Per leg)  | $I_{FSM}$       | 600A                    | 8.3ms, half sine   |
| Maximum Instantaneous Forward Voltage (Per leg) NOTE (1)                              | $V_F$           | 0.55V<br>0.75V<br>0.84V | (FST6210SL-FST6245SL)<br>(FST6260SL)<br>(FST6280SL-FST62100SL)<br>$I_{FM} = 30\text{ A}; T_J = 25^{\circ}\text{C}$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1) | $I_R$           | 3.0 mA<br>500 mA        | $T_J = 25^{\circ}\text{C}$<br>$T_J = 125^{\circ}\text{C}$  |
| Maximum Thermal Resistance Junction To Case (Per leg)                                 | $R_{\theta jc}$ | 1.2°C/W                 |  |

NOTE :

(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%



# FST6210SL THRU FST62100SL

Figure .1-Typical Forward Characteristics

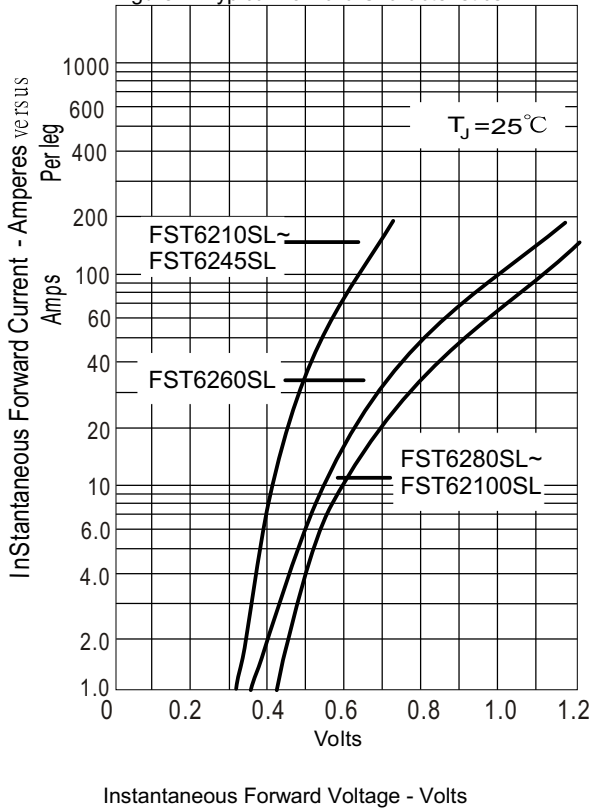


Figure .2- Forward Derating Curve

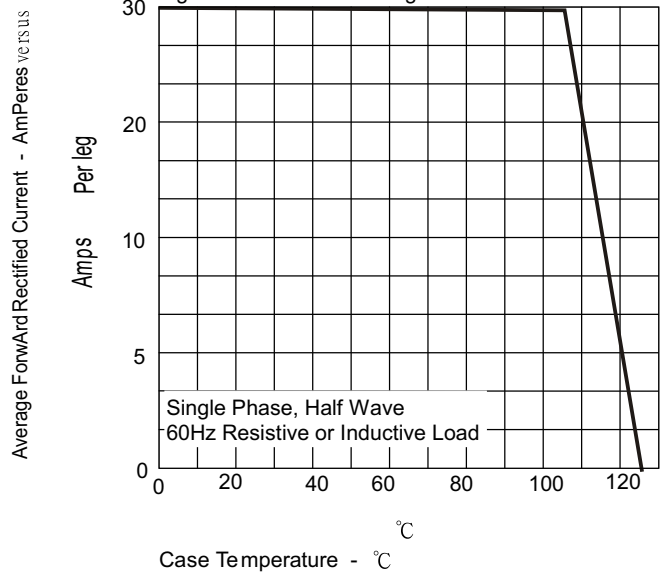


Figure .3-Peak Forward Surge Current

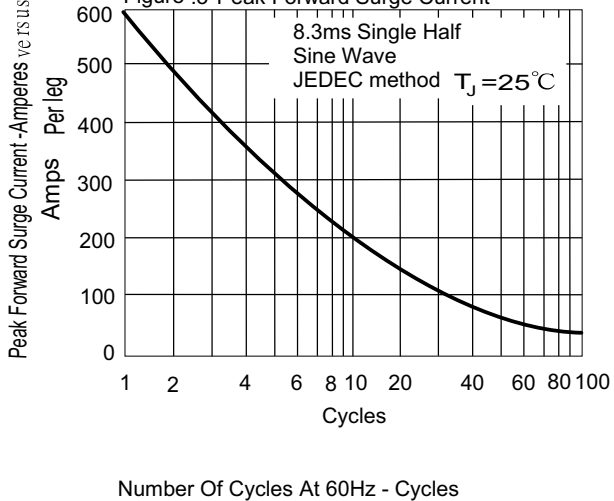


Figure .4-Typical Reverse Characteristics

