

**SCHOTTKY DIODES MODULE TYPE 80A**

**Features**

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

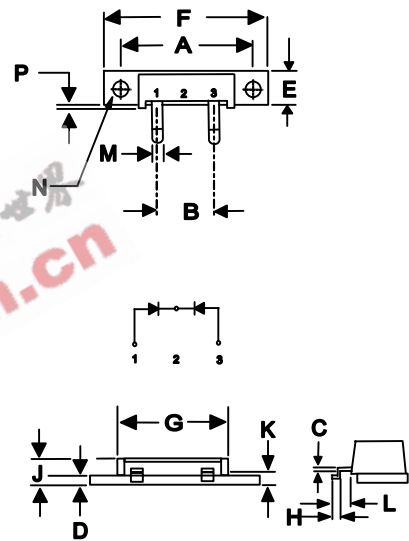
**80Amp Rectifier  
20-100 Volts**

**MINI MOD  
D61-2L**

**Maximum Ratings**

Operating Temperature:  $-40^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$   
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$

| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------|--|---------------------|-----------------------------|
| FST8220L    | 20V                                    | 14V                 | 20V                         |
| FST8230L    | 30V                                    | 21V                 | 30V                         |
| FST8235L    | 35V                                    | 25V                 | 35V                         |
| FST8240L    | 40V                                    | 28V                 | 40V                         |
| FST8245L    | 45V                                    | 32V                 | 45V                         |
| FST8260L    | 60V                                    | 42V                 | 60V                         |
| FST8280L    | 80V                                    | 56V                 | 80V                         |
| FST82100L   | 100V                                   | 70V                 | 100V                        |



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

|   |                 |                         |   |
|---|-----------------|-------------------------|---|
| Average Forward Current<br>(Per pkg)  | $I_{F(AV)}$     | 80A                     | $T_C = 110^{\circ}\text{C}$   |
| Peak Forward Surge Current<br>(Per leg)   | $I_{FSM}$       | 800A                    | 8.3ms, half sine  |
| Maximum Instantaneous Forward Voltage<br>NOTE (1)                               | $V_F$           | 0.65V<br>0.75V<br>0.84V | (FST8220L~FST8245L)<br>(FST8260L)<br>(FST8280L~FST82100L)<br>$I_{FM} = 40\text{ A}; T_j = 25^{\circ}\text{C}$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage<br>(Per leg) | $I_R$           | 1.5 mA<br>500 mA        | $T_j = 25^{\circ}\text{C}$<br>$T_j = 125^{\circ}\text{C}$   |
| Maximum Thermal Resistance Junction To Case<br>(Per leg)                        | $R_{\theta jc}$ | 1.2 °C/W                |   |

| DIM | DIMENSIONS |       |       |       | NOTE |
|-----|------------|-------|-------|-------|------|
|     | INCHES     |       | MM    |       |      |
| A   | 1.180      | 1.195 | 29.97 | 30.35 |      |
| 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   | 1.490      | 1.510 | 37.85 | 38.35 |      |
| 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  |      |
| N   | .151       | .161  | 3.84  | 4.09  | Ø    |
| P   | .015       | .025  | 0.38  | 0.64  |      |

NOTE :

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

Figure .1-Typical Forward Characteristics

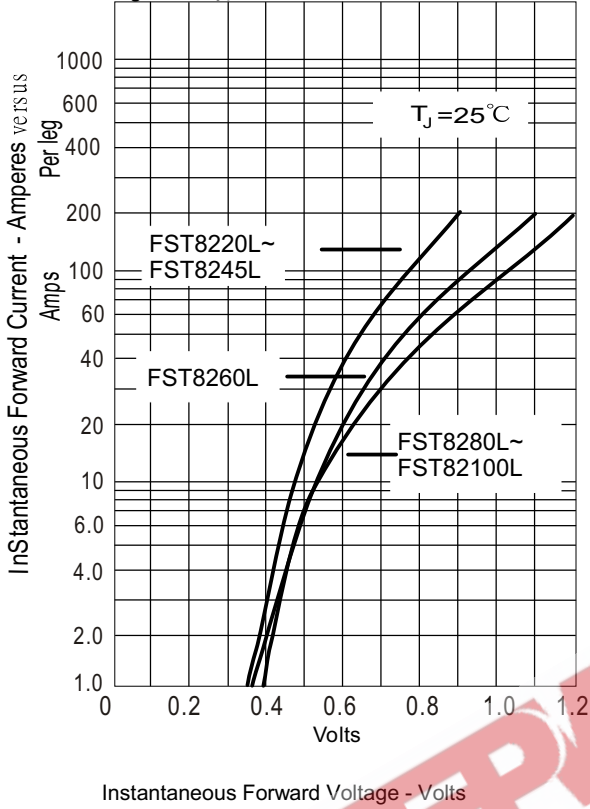
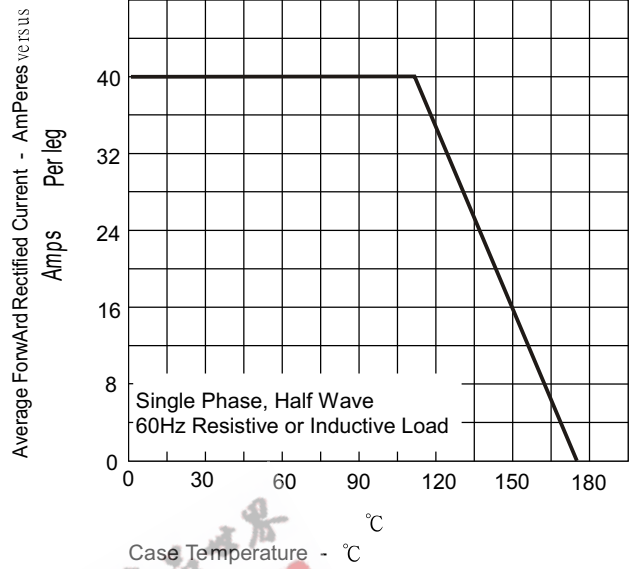


Figure .2- Forward Derating Curve



Instantaneous Forward Voltage - Volts

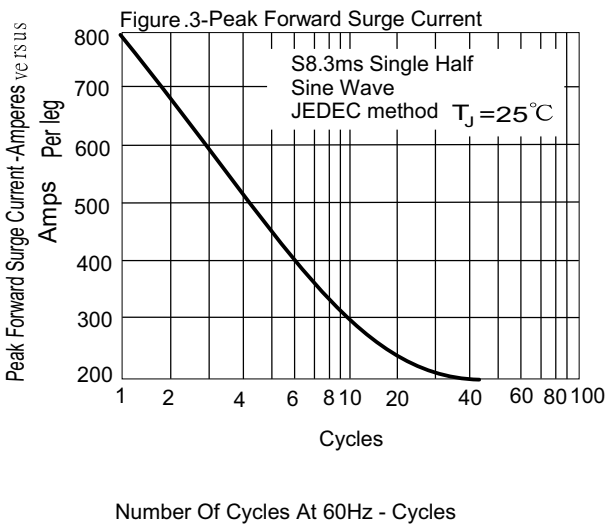


Figure .4-Typical Reverse Characteristics

