



Transys
Electronics
LIMITED

**FST6310SM
THRU
FST63100SM**

SCHOTTKY DIODES MODULE TYPE 60A

Features

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

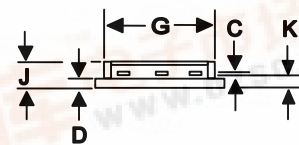
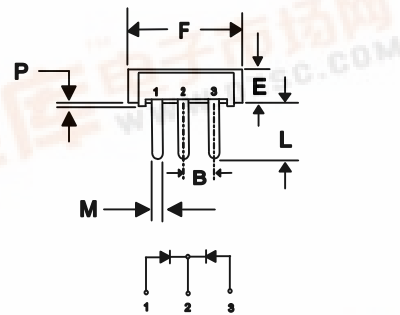
**60Amp Rectifier
10-100 Volts**

**MINI MOD
D61-3SM**

Maximum Ratings

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

| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------|--|---------------------|-----------------------------|
| FST6310SM | 10V | 7V | 10V |
| FST6315SM | 15V | 10V | 15V |
| FST6320SM | 20V | 14V | 20V |
| FST6330SM | 30V | 21V | 30V |
| FST6335SM | 35V | 25V | 35V |
| FST6340SM | 40V | 28V | 40V |
| FST6345SM | 45V | 32V | 45V |
| FST6360SM | 60V | 42V | 60V |
| FST6380SM | 80V | 56V | 80V |
| FST63100SM | 100V | 70V | 100V |



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | ----- | ----- | ----- | ----- | |
| B | .200 | NOM | 5.08 | 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 | |
| J | .240 | .260 | 6.10 | 6.60 | |
| K | .115 | .135 | 2.92 | 3.43 | |
| L | .457 | .477 | 11.61 | 12.12 | |
| M | .065 | .085 | 1.65 | 2.16 | |
| N | ----- | ----- | ----- | ----- | ∅ |
| 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 0.75V 0.84V | (FST6310SM~FST6345SM) (FST6360SM) (FST6380SM~FST63100SM) $I_{FM} = 30\text{ A}; T_J = 25^{\circ}\text{C}$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1) | I_R | 3.0 mA 500 mA | $T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$ |
| 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%



FST6310SM THRU FST63100SM

Figure .1-Typical Forward Characteristics

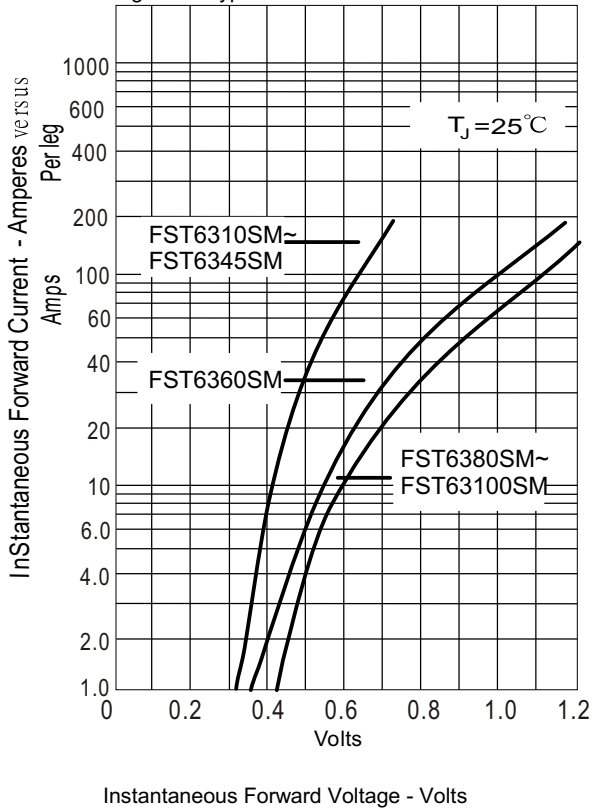
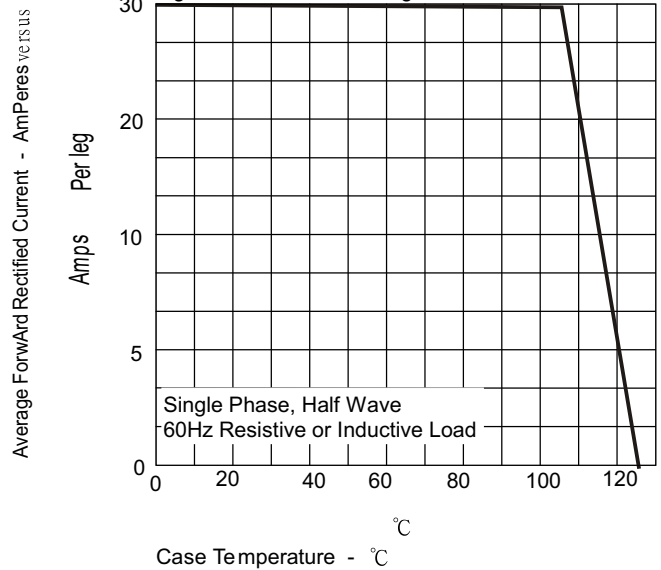


Figure .2-Forward Derating Curve



Instantaneous Forward Voltage - Volts

Figure .3-Peak Forward Surge Current

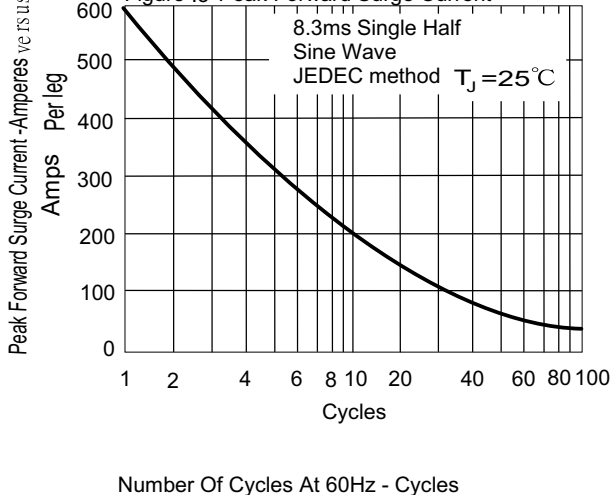


Figure .4-Typical Reverse Characteristics

