

SCHOTTKY DIODES MODULE TYPE 70A

Features

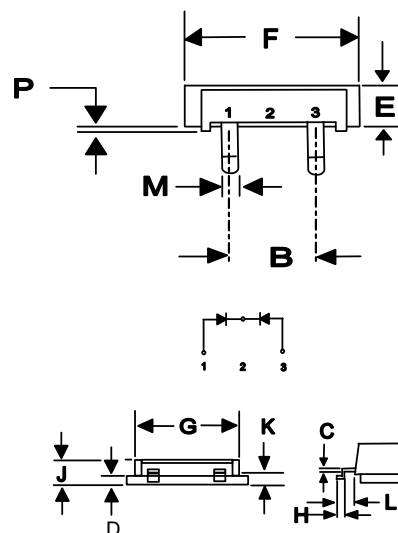
High Surge Capability
Types Up to 100V V_{RRM}

70Amp Rectifier
20-100 Volts

Maximum Ratings

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

| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------|--|---------------------|-----------------------------|
| FST7220SL | 20V | 14V | 20V |
| FST7230SL | 30V | 21V | 30V |
| FST7235SL | 35V | 25V | 35V |
| FST7240SL | 40V | 28V | 40V |
| FST7245SL | 45V | 32V | 45V |
| FST7260SL | 60V | 42V | 60V |
| FST7280SL | 80V | 56V | 80V |
| FST72100SL | 100V | 70V | 100V |
| | | | |
| | | | |



Electrical Characteristics @ 25 °C Unless Otherwise Specified

| | | | |
|---|-----------------|-------------------------|--|
| Average Forward Current (Per pkg) | $I_{F(AV)}$ | 70A | $T_C = 100^{\circ}\text{C}$ |
| Peak Forward Surge Current (Per leg) | I_{FSM} | 800A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage (Per leg) NOTE (1) | V_F | 0.55V 0.75V 0.84V | (FST7220SL-FST7245SL) (FST7260SL) (FST7280SL-FST72100SL) $I_{FM} = 35\text{ A}; T_J = 25^{\circ}\text{C}$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1) | I_R | 5.0 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%

| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | 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 | |

FST7220SL THRU FST72100SL

