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Silicon Power Schottky Diode

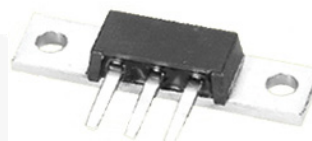
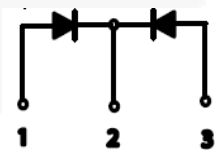
$V_{RRM} = 10\text{ V} - 40\text{ V}$

$I_{F(AV)} = 60\text{ A}$

Features

- High Surge Capability
- Types from 10 V to 40 V V_{RRM}
- Not ESD Sensitive

D61-3M Package



Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

| Parameter | Symbol | Conditions | FST6310M | FST6315M | FST6320M | FST6330M | FST6335M | Unit |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | V_{RRM} | | 10 | 15 | 20 | 30 | 35 | V |
| RMS reverse voltage | V_{RMS} | | 7 | 11 | 14 | 21 | 25 | V |
| DC blocking voltage | V_{DC} | | 10 | 15 | 20 | 30 | 35 | V |
| Operating temperature | T_j | | -55 to 150 | -55 to 150 | -55 to 150 | -55 to 150 | -55 to 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -55 to 150 | -55 to 150 | -55 to 150 | -55 to 150 | -55 to 150 | $^\circ\text{C}$ |

Electrical characteristics, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

| Parameter | Symbol | Conditions | FST6310M | FST6315M | FST6320M | FST6330M | FST6335M | Unit |
|--|-------------|---|----------|----------|----------|----------|----------|------|
| Average forward current (per pkg) | $I_{F(AV)}$ | $T_C = 125\text{ }^\circ\text{C}$ | 60 | 60 | 60 | 60 | 60 | A |
| Peak forward surge current (per leg) | I_{FSM} | $t_p = 8.3\text{ ms}$, half sine | 600 | 600 | 600 | 600 | 600 | A |
| Maximum instantaneous forward voltage (per leg) | V_F | $I_{FM} = 30\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$ | 0.70 | 7.0 | 0.70 | 0.70 | 0.70 | V |
| Maximum Instantaneous reverse current at rated DC blocking voltage (per leg) | I_R | $T_j = 25\text{ }^\circ\text{C}$ | 1 | 1 | 1 | 1 | 1 | mA |
| | | $T_j = 100\text{ }^\circ\text{C}$ | 10 | 10 | 10 | 10 | 10 | |
| | | $T_j = 150\text{ }^\circ\text{C}$ | 30 | 30 | 30 | 30 | 30 | |

Thermal characteristics

| | | | | | | | | |
|---|-----------------|--|------|------|------|------|------|--------------------|
| Thermal resistance, junction - case (per leg) | $R_{\theta JC}$ | | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | $^\circ\text{C/W}$ |
|---|-----------------|--|------|------|------|------|------|--------------------|

Figure .1- Typical Forward Characteristics

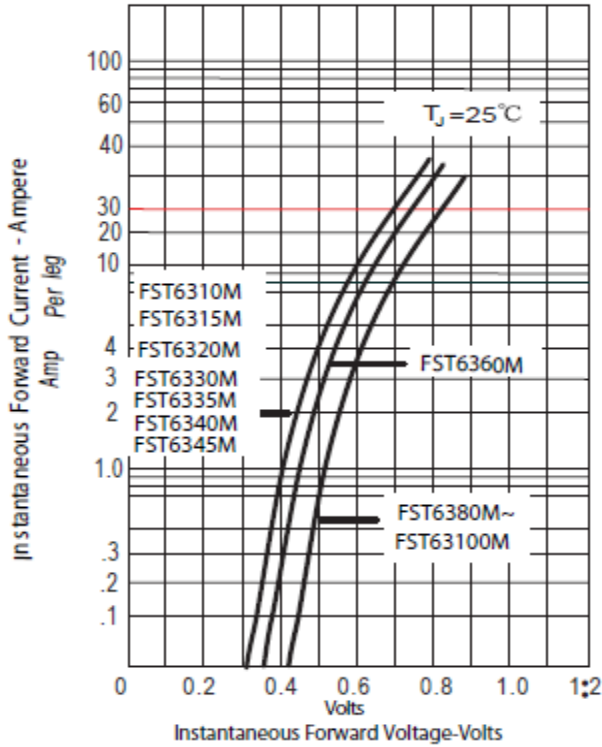


Figure .2- Forward Derating Curve

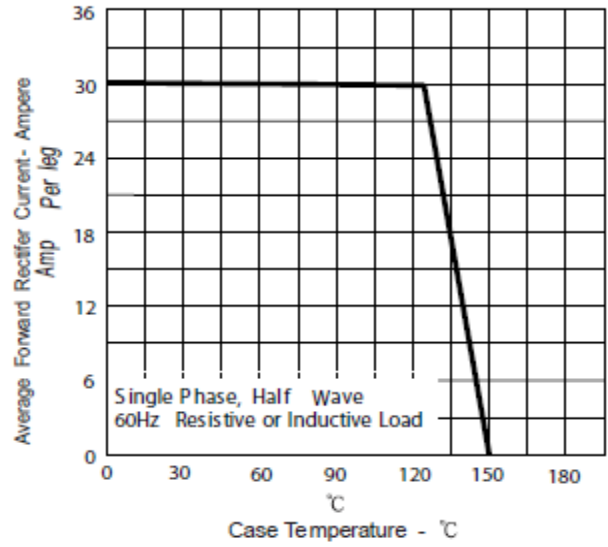


Figure.3-Peak Forward Surge Current

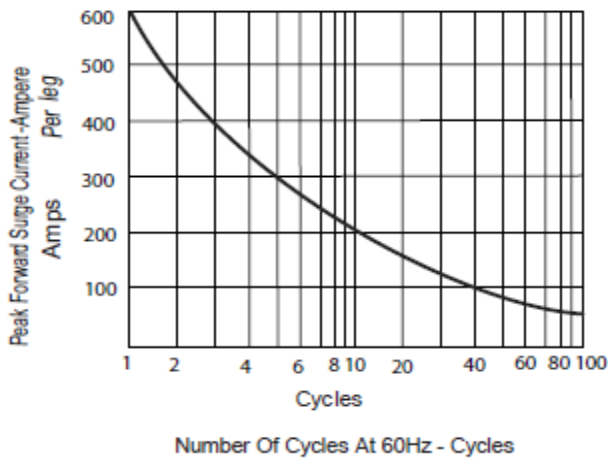
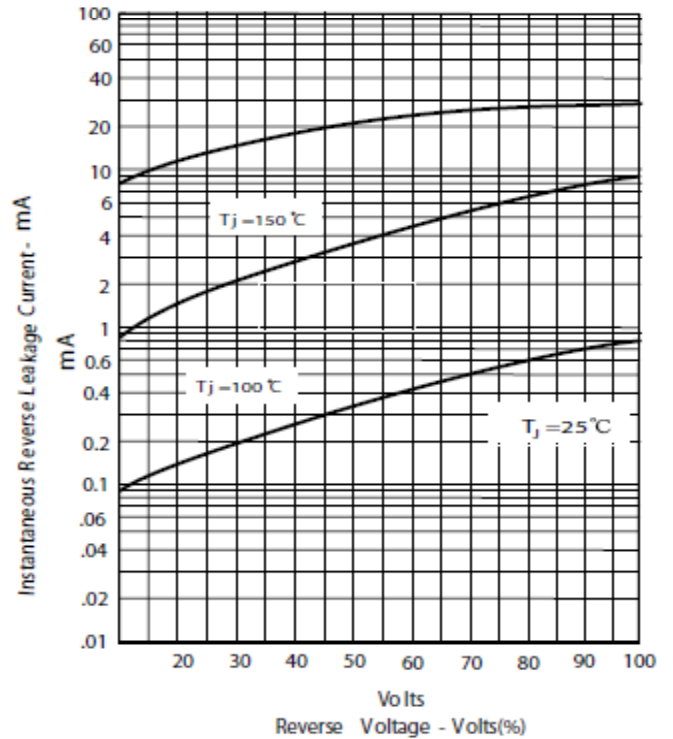
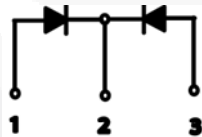
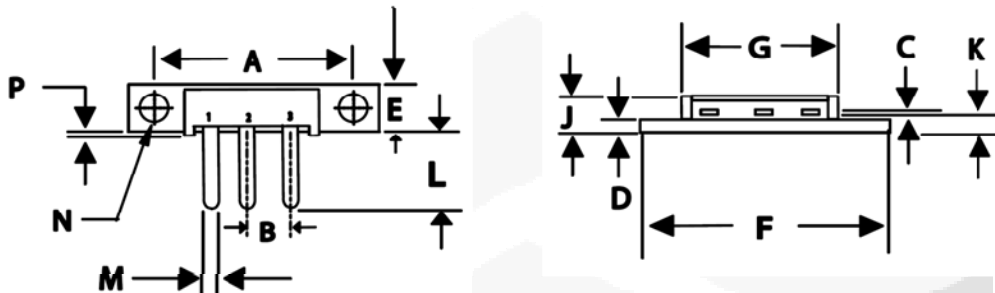


Figure .4- Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



| DIMENSIONS | | | | | |
|------------|---------|-------|-------|-------|------|
| DIM | IN CHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | 1.180 | 1.195 | 29.97 | 30.35 | |
| 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 | 1.490 | 1.510 | 37.85 | 38.35 | |
| G | .695 | .715 | 17.65 | 18.16 | |
| J | .24 | .26 | 6.1 | 6.6 | |
| K | .115 | .135 | 2.92 | 3.43 | |
| L | .457 | .477 | 11.61 | 12.12 | |
| M | .065 | .085 | 1.65 | 2.16 | |
| N | .151 | .161 | 3.84 | 4.09 | ∅ |
| P | .015 | .025 | 0.38 | 0.64 | |