

Silicon Power Diode

PSM/PSMR 60L
PSM/PSMR 60K

$I_{F(AV)} = 60 \text{ A}$
 $V_{RRM} = 100 - 1600 \text{ V}$

Preliminary Data Sheet

| V_{RRM} max. repetitive peak voltage (V) | $V_{R(RMS)}$ max. RMS reverse voltage (V) | V_R max. DC blocking voltage (V) | recommended RMS working voltage (V) | Type | |
|---|--|---|--|-----------------------|--------------------|
| | | | | without terminal lead | with terminal lead |
| 100 | 70 | 100 | 40 | PSM/PSMR 60/01L | PSM/PSMR 60/01K |
| 200 | 140 | 200 | 80 | PSM/PSMR 60/02L | PSM/PSMR 60/02K |
| 400 | 280 | 400 | 160 | PSM/PSMR 60/04L | PSM/PSMR 60/04K |
| 600 | 420 | 600 | 240 | PSM/PSMR 60/06L | PSM/PSMR 60/06K |
| 800 | 560 | 800 | 320 | PSM/PSMR 60/08L | PSM/PSMR 60/08K |
| 1000 | 700 | 1000 | 400 | PSM/PSMR 60/10L | PSM/PSMR 60/10K |
| 1200 | 840 | 1200 | 480 | PSM/PSMR 60/12L | PSM/PSMR 60/12K |
| 1400 | 980 | 1400 | 560 | PSM/PSMR 60/14L | PSM/PSMR 60/14K |
| 1600 | 1120 | 1600 | 640 | PSM/PSMR 60/16L | PSM/PSMR 60/16K |

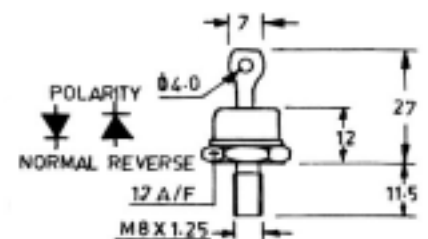
| Symbol | Conditions | Maximum Ratings | |
|---------------|--|-----------------|------------------|
| $I_{F(AV)}$ | $T_C = 125^\circ\text{C}$ | 60 | A |
| I_{FSM} | $T_{VJ} = 45^\circ\text{C}$ $t = 10 \text{ ms}$ | 860 | A |
| I_{FRM} | max. peak cycle repetitive surge current | 300 | A |
| I^2t | max. I^2t rating (non-rep.) for 5 to 10 ms | 5000 | A ² s |
| $I_{R(AV)}$ | max. average reverse leakage current at V_{RRM} ; $T_C = 25^\circ\text{C}$ | 200 | μA |
| V_{FM} | max. peak forward voltage drop @ rated $I_{F(AV)}$ | 1.3 | V |
| R_{thJC} | max. thermal resistance junction to case | 0.55 | K/W |
| T_{VJ} | operating junction temperature | -65... + 150 | $^\circ\text{C}$ |
| T_{VJM} | max. virtual junction temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | storage temperature | -65... + 200 | $^\circ\text{C}$ |
| M_d | mounting torque | min. 0.4 | mkg |
| | (non-lubricated threads) | max. 0.6 | mkg |
| Weight | PSM/PSMR 60L | typ. 13.5 | g |
| Weight | PSM/PSMR 60K | typ. 30 | g |

Features

- All Diffused Series
- Available in Normal & Reverse Polarity
- Industrial Grade
- Available in Avalanche Characteristic

DO - 5

PSM/PSMR 60L



PSM/PSMR 60K

