

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

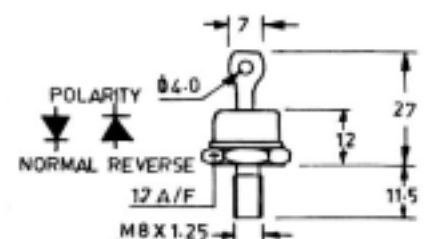
Symbol	Conditions	Maximum Ratings	
$I_{F(AV)}$	$T_C = 125^\circ\text{C}$	60	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$ $t = 10 \text{ ms}$	860	A
I_{FRM}	max. peak cycle repetitive surge current	300	A
I^2t	max. I^2t rating (non-rep.) for 5 to 10 ms	5000	A ² s
$I_{R(AV)}$	max. average reverse leakage current 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

