

Silicon Power Diode PSM/PSMR 12

$$I_{F(AV)} = 12 \text{ A}$$

$$V_{RRM} = 100 - 1600 \text{ V}$$

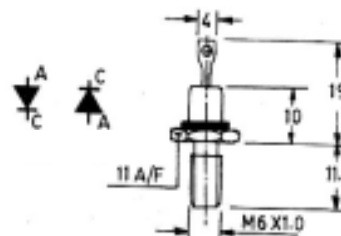
Preliminary Data Sheet

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
100	70	100	40	PSM/PSMR 12/01L
200	140	200	80	PSM/PSMR 12/02L
400	280	400	160	PSM/PSMR 12/04L
600	420	600	240	PSM/PSMR 12/06L
800	560	800	320	PSM/PSMR 12/08L
1000	700	1000	400	PSM/PSMR 12/10L
1200	840	1200	480	PSM/PSMR 12/12L
1400	980	1400	560	PSM/PSMR 12/14L
1600	1120	1600	640	PSM/PSMR 12/16L

Symbol	Conditions	Maximum Ratings	
$I_{F(AV)}$	$T_C = 150^\circ\text{C}$	12	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$ $t = 10 \text{ ms}$	250	A
I_{FRM}	max. peak cycle repetitive surge current	60	A
I^2t	max. I^2t rating (non-rep.) for 5 to 10 ms	250	A ² s
$I_{R(AV)}$	max. average reverse leakage current at V_{RRM} ; $T_C = 25^\circ\text{C}$	100	μA
V_{FM}	max. peak forward voltage drop @ rated $I_{F(AV)}$	1.3	V
R_{thJC}	max. thermal resistance junction to case	2	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... +150	$^\circ\text{C}$
M_d	mounting torque	min. 0.14	mkg
	(non-lubricated threads)	max. 0.17	mkg
Weight		typ. 7	g

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PSM/PSMR 12



Features

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