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Silicon Power Diode PSM/PSMR 16

$I_{F(AV)}$ = 16 A
V_{RRM} = 100 - 1600 V

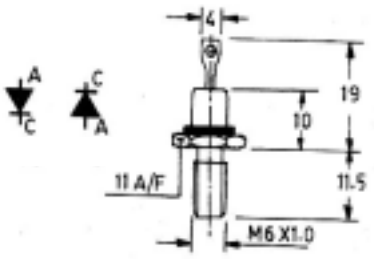
Preliminary Data Sheet

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

Symbol	Conditions		Maximum Ratings	
$I_{F(AV)}$	T_C = 150°C		16	A
I_{FSM}	T_{VJ} = 45°C t = 10 ms		300	A
I_{FRM}	max. peak cycle repetitive surge current		80	A
I^2t	max. I^2t rating (non-rep.) for 5 to 10 ms		450	A^2s
$I_{R(AV)}$	max. average reverse leakage current at V_{RRM}; T_C = 25°C		100	µA
V_{FM}	max. peak forward voltage drop @ rated 1F(AV)		1.2	V
R_{thJC}	max. thermal resistance junction to case		1	K/W
T_{VJ}	operating junction temperature		-65... + 150	°C
T_{VJM}	max. virtual junction temperature		150	°C
T_{stg}	storage temperature		-65... + 150	°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 16



Features

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

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