Silicon Power Diode PSM/PSMR 100K $I_{F(AV)}$ = 100 A
V_{RRM} = 100 V to 2000 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
100	70	100	40	PSM/PSMR 100/01K
200	140	200	80	PSM/PSMR 100/02K
400	280	400	160	PSM/PSMR 100/04K
600	420	600	240	PSM/PSMR 100/06K
800	560	800	320	PSM/PSMR 100/08K
1000	700	1000	400	PSM/PSMR 100/10K
1200	840	1200	480	PSM/PSMR 100/12K
1400	980	1400	560	PSM/PSMR 100/14K
1600	1120	1600	640	PSM/PSMR 100/16K
1800	1260	1800	720	PSM/PSMR 100/18K
2000	1400	2000	800	PSM/PSMR 100/20K

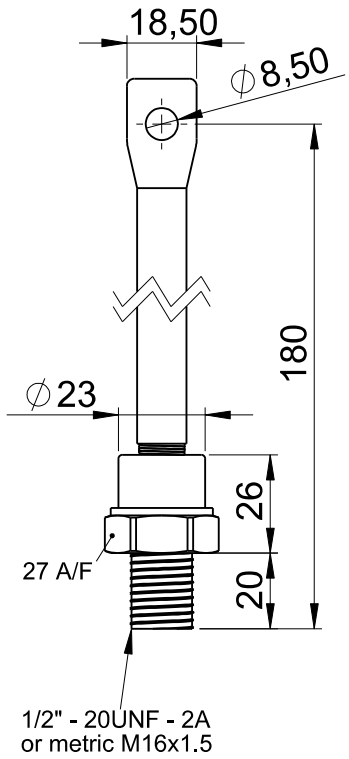
Symbol	Conditions		Maximum Ratings	
$I_{F(AV)}$	T_C = 150˚C		100	A
I_{FSM}	max. peak (one-cycle) non-repetitive surge current	T_{vj} = 45˚C t = 10 ms	2300	A
I_{FRM}	max. peak repetitive surge current		500	A
I^2t	max. I^2t rating (non rep.) for 5 to 10 ms		26000	A^2s
$I_{R(AV)}$	V_R = V_{RRM}, T_C = 25˚C		0.2	mA
V_{FM}	I_F = 100 A	PSM/PSMR 100/01K to PSM/PSMR 100/16K	1.4	V
		PSM/PSMR 100/18K and PSM/PSMR 100/20K	1.5	V
$R_{th(j-c)}$	max. thermal resistance junction to case		0.40	K/W
T_{vj}	operating junction temperature		-65 ... +150	˚C
T_{vjm}	max. virtual junction temperature		150	˚C
T_{stg}	storage temperature		-65 ... +200	˚C
M_d	Mounting torque	min.	2.0	mkg
	(non-lubricated threads)	max.	3.0	mkg
Weight	typ.		150	g

Features

- All Diffused Series
- Industrial grade
- Available in normal and reverse polarity
- Available in avalanche characteristic
- Metric and UNF thread type

Package Outline
(All dimensions in mm)

PSM/PSMR 100K



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