

Silicon Power Diode

PSM/PSMR 85L
PSM/PSMR 85K

$I_{F(AV)} = 85 \text{ A}$
 $V_{RRM} = 100 \text{ V to } 1600 \text{ V}$

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 85/01L	PSM/PSMR 85/01K
200	140	200	80	PSM/PSMR 85/02L	PSM/PSMR 85/02K
400	280	400	160	PSM/PSMR 85/04L	PSM/PSMR 85/04K
600	420	600	240	PSM/PSMR 85/06L	PSM/PSMR 85/06K
800	560	800	320	PSM/PSMR 85/08L	PSM/PSMR 85/08K
1000	700	1000	400	PSM/PSMR 85/10L	PSM/PSMR 85/10K
1200	840	1200	480	PSM/PSMR 85/12L	PSM/PSMR 85/12K
1400	980	1400	560	PSM/PSMR 85/14L	PSM/PSMR 85/14K
1600	1120	1600	640	PSM/PSMR 85/16L	PSM/PSMR 85/16K

Symbol	Conditions	Maximum Ratings	
$I_{F(AV)}$	$T_{vj} = 150^\circ\text{C}$	85	A
I_{FSM}	max. peak (one-cycle) non-repetitive surge current $T_{vj} = 25^\circ\text{C}$ $t = 10 \text{ ms}$	1700	A
I_{FRM}	max. peak repetitive surge current	4700	A
I^2t	max. I^2t rating (non rep.) for 5 to 10 ms	14500	A^2s
V_{FM}	$I_F = 85 \text{ A}$	1.3	V
$R_{th(j-c)}$	max. thermal resistance junction to case	0.55	K/W
T_{vj}	operating junction temperature	-65 ... +150	$^\circ\text{C}$
$T_{vj\text{m}}$	max. virtual junction temperature	150	$^\circ\text{C}$
T_{stg}	storage temperature	-65 ... +200	$^\circ\text{C}$
M_d	Mounting torque (non-lubricated threads)	min. 0.4 max. 0.6	mkg
Weight	PSM/PSMR 85L PSM/PSMR 85K	typ. 13.5 typ. 30	g

Features

- All Diffused Series
- Available in Normal & Reverse polarity
- Industrial grade
- Metric and UNF thread type

