Rectifier Diode Modules

TYPE:MDN(R)100A/12

Features

- Heat Transfer Through Aluminium Oxide Ceramic Isolated Metal Baseplate
- Hard Soldered Joints For High Reliability
- UL Recognized

Typical Applications

- Rectifier for drives applications
- Rectifiers for UBS
- Battery chargers

BLOCKING

Symbol	Condition	Ratings	Unit
V_{RRM} V_{RSM}	T_j= T_j Max.	1200 1300	V
I_{RRM}	AtV_{RRM}，Single phase，half wave，T_j= T_j Max.	3	mA
V_{ISO}	50Hz, r.m.s;1S/1min		V

CONDUCTING

Symbol	Condition	Ratings	Unit
$I_{F(AV)}$	T_C=100°C; 180° sine	100	A
$I_{F(RMS)}$	T_C=100°C; 180° sine	180	A
I_{FSM}	T_j= T_j Max.; t = 10 ms (50 Hz); sine	2000	A
I^2t	T_j= T_j Max.; t = 10 ms (50 Hz); sine	20	kA^2S
$V_{F(TO)}$	(I > π x $I_{F(AV)}$),Tj= Tj Max.	0.87	V
r_F	(I > π x $I_{F(AV)}$),Tj= Tj Max.	2.45	mΩ
V_{FM}	On-State Current300A，T_j=25°C	1.50	V

Electrical Characteristics

Symbol	Condition	Ratings	Unit
$R_{th(j-c)}$	Per Module	0.1	K/W
$R_{th(c-h)}$	Per Module	0.11	K/W
T_j		-40 ~ + 130	°C
T_{stg}		-40 ~ + 125	°C
M	mounting torque	5	Nm
	terminal torque	3	Nm
W			g

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Outline Drawing