Rectifier Diode Modules

- TYPE:YZPST-MDC(3)-470-44-A2

V_{INS}>6000VAC

Features

- Heat Transfer Through Aluminium Oxide Ceramic Isolated Metal Baseplate
- Hard Soldered Joints For High Reliability
- V_{INS}>6000VAC

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.	4400 4500	V
I_{RRM}	AtV_{RRM}，Single phase，half wave，T_j= T_j Max.	50	mA
V_{INS}	50Hz, circuit to base, all terminal shorted	6000	V

CONDUCTING

Symbol	Condition	Ratings	Unit
$I_{F(AV)}$	T_C=100°C; 180° sine	510	A
$I_{F(RMS)}$	T_C=95°C; 180° sine	790	A
I_{FSM}	T_j= T_j Max.; t = 10 ms (50 Hz); sine	12.5	KA
I^2t	T_j= T_j Max.; t = 10 ms (50 Hz); sine	780	kA^2S
$V_{F(TO)}$	(I > π x $I_{F(AV)}$),Tj= Tj Max.	0.82	V
r_F	(I > π x $I_{F(AV)}$),Tj= Tj Max.	0.56	mΩ
V_{FM}	On-State Current1256A，T_j=25°C	1.60	V

Electrical Characteristics

Symbol	Condition	Ratings	Unit
$R_{th(j-c)}$	Per Module	0.032	K/W
$R_{th(c-h)}$	Per Module	0.0305	K/W
T_j		-40 ~ + 150	°C
T_{stg}		-40 ~ + 125	°C
M	mounting torque(M6)	6	Nm
	terminal torque(M10)	12	Nm
W		1500-	g

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Outline Drawing