

**Rectifier Diode Modules**

P/N: YZPST-M1D400-2800

**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
$V_{RRM}$ $V_{RSM}$	$T_j = T_j \text{ Max.}$	2800 2900	V
$I_{RRM}$	$AtV_{RRM}$ , Single phase, half wave, $T_j = T_j \text{ Max.}$	40	mA
$V_{ISOL}$	50Hz, 1min, 1s	3000/3600	V

**CONDUCTING**

Symbol	Condition	Ratings	Unit
$I_{F(AV)}$	$T_c = 97^\circ\text{C}$ ; 180° sine	400	A
$I_{F(RMS)}$	$T_c = 85^\circ\text{C}$ ; 180° sine	628	A
$I_{FSM}$	$T_j = T_j \text{ Max.}$ ; t = 10 ms (50 Hz); sine	8.0	KA
$I^2t$	$T_j = T_j \text{ Max.}$ ; t = 10 ms (50 Hz); sine	320	kA <sup>2</sup> S
$V_{F(TO)}$	( $I > \pi \times I_{F(AV)}$ ), $T_j = T_j \text{ Max.}$	0.80	V
$r_F$	( $I > \pi \times I_{F(AV)}$ ), $T_j = T_j \text{ Max.}$	0.800	mΩ
$V_{FM}$	On-State Current 1570A, $T_j = 25^\circ\text{C}$	2.4	V

**Electrical Characteristics**

Symbol	Condition	Ratings	Unit
$R_{th(j-c)}$	Per Module	0.034	K/W
$R_{th(c-h)}$	Per Module	0.010	K/W
$T_j$		-40 ~ + 150	°C
$T_{stg}$		-40 ~ + 150	°C
M	mounting torque	6	Nm
	terminal torque	12	Nm
W		-	g

Outline Drawing

