YZPST. YANGZHOU POSITIONING TECH. CO., LTD

50 V 50 A

P/N: YZPST-MK5050

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Bypass Diode Module For PV

REVERSE VOLTAGE:	
FORWARD CURRENT.	

FEATURES

- · Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- · High current capability, low IR
- · High surge capacity
- \cdot High temperature reverse characteristic is excellent
- \cdot For use in photovoltaic solar cell protection



MECHANICAL DATA

Case: Molded plastic, MT09E Epoxy: UL 94V-O rate flame retardant Polarity: As marked Mounting position: Any Marking: MK5050

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	MK5050	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	V
Maximum RMS Voltage	V _{RMS}	35	V
Maximum DC Blocking Voltage	V _{DC}	50	V
Maximum Average Forward Rectified Current at T _C = 125°C	I _(AV)	50.0	А
Peak Forward Surge Current,			
8.3ms single half-sine-wave	I _{FSM}	400	Α
superimposed on rated load (JEDEC method)			
Maximum Forward at $I_F = 50A$, $T_C = 25^{\circ}C$	V	0.55	V
Voltage (Note 1) at $I_F = 50A$, $T_C = 125^{\circ}C$	v _F	0.47	v
Maximum Reverse Current at T _J =25℃	т	0.5	
at Rated DC Blocking Voltage T _J =100°C	IR	500	ША
Typical Thermal Resistance	R _{0JC}	1.2	°C/W
Operating Junction Temperature Range	T _{OP}	-55 to +150	ĉ
Junction Temperature in DC Forward Current Without Reverse Bias. T ≤ 1 hour (Note 3)	T _J	≤ 200 °C	ĉ
Storage Temperature Range	Tstg	-55 to +150	ĉ

NOTES:

- 1- 300us Pulse Width, 2%Duty Cycle.
- 2- Thermal Resistance Junction to Case. Without Heatsink.
- 3- Meets The Requiements Of IEC 61215 ed. 2 Bypass Diode Thermal Test.

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RATINGS AND CHARACTERISTIC CURVES





FIG.3-TYPICAL REVER CHARACTERISTICS



FIG.4-TYPICAL FORWARD CHARACTERISTICS

