

BYPASS DIODE MODULE FOR SOLARCELL

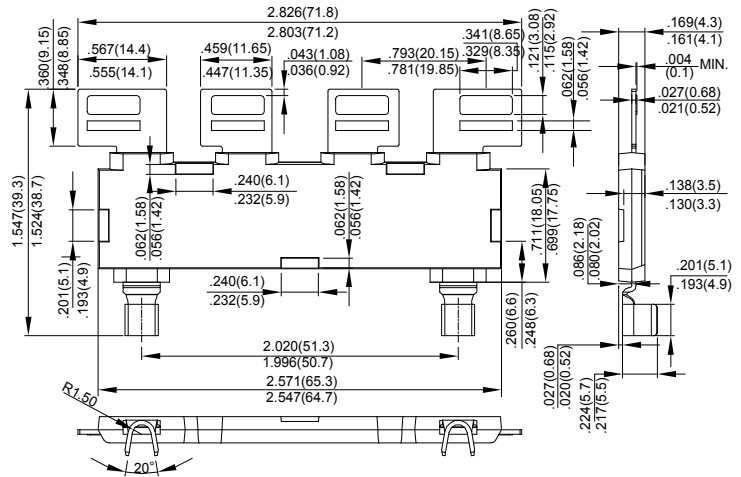
REVERSE VOLTAGE - 45Volts
FORWARD CURRENT - 30 Amperes

FEATURES

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low I_R
- High surge capacity
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

MECHANICAL DATA

- Polarity: As marked on Body
- Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

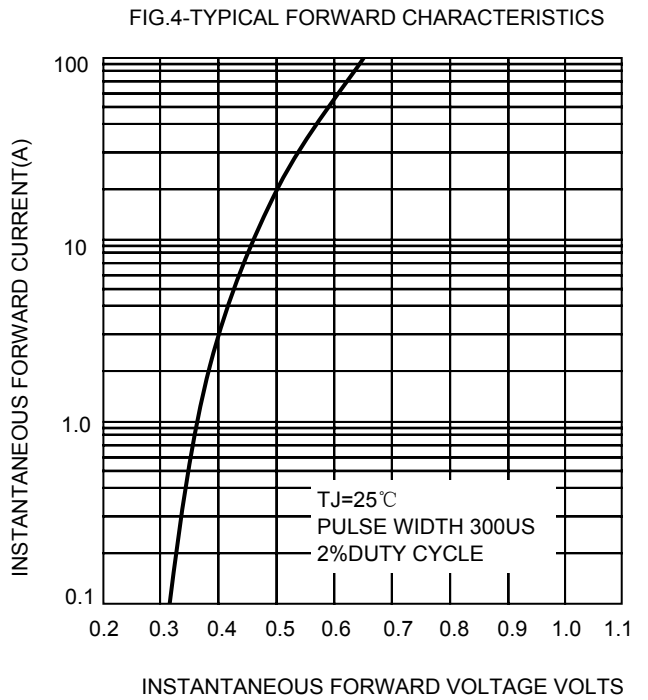
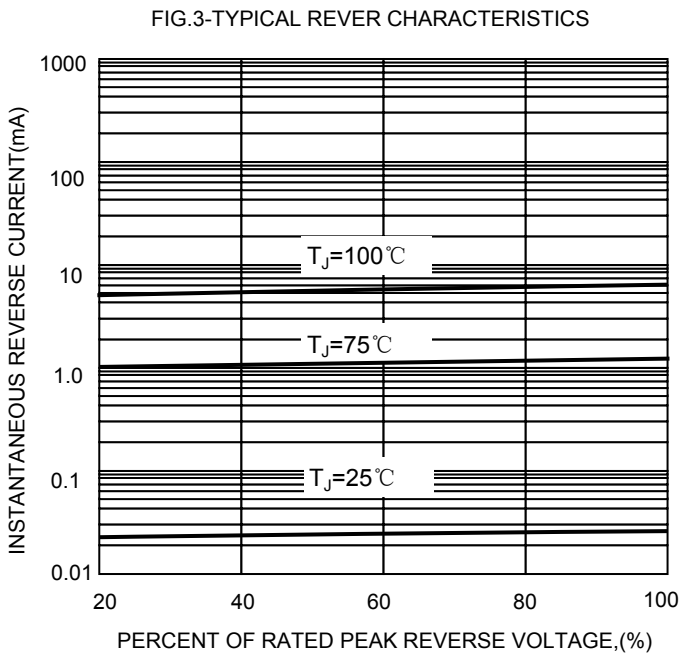
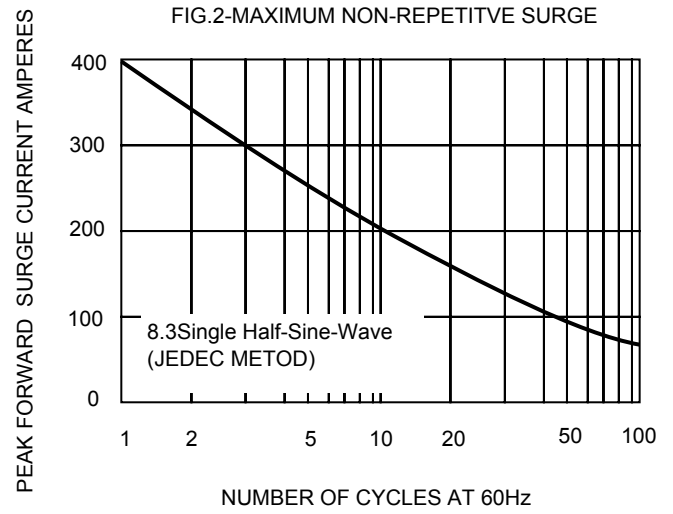
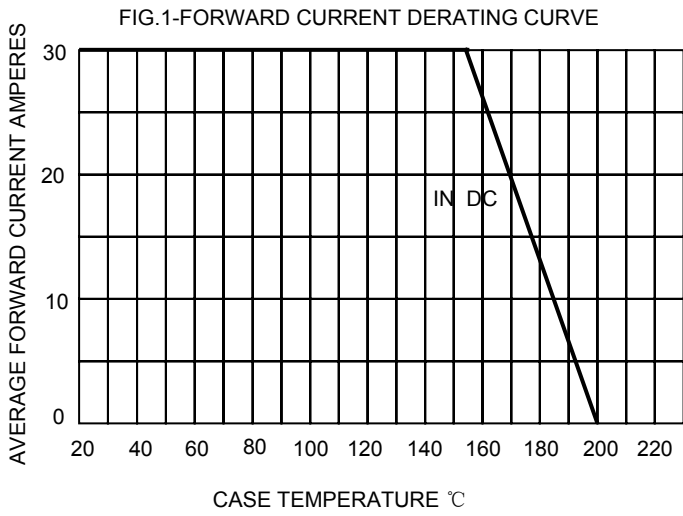
Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	HYMK30T45	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45	V
Maximum RMS Voltage	V_{RMS}	31.5	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum Average Forward Rectified Current @ $T_c=154^\circ C$	$I_{(AV)}$	30	A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I_{FSM}	400	A
Peak Forward Voltage at 30A DC(Note1)	V_F	0.53	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1	mA
Typical Thermal Resistance	$R_{\theta JC}$	2.8	$^\circ C/W$
Operating Temperature Range(IN DC Forward Mode-Forward Operations,without reverse bias, $t \leq 1h$)	T_J	-55 to+200	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to+200	$^\circ C$

NOTES:1.300us Pulse Width, 2%Duty Cycle.

2.The typical data above is for reference only(典型值仅供参考).



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!