



# MK3045PS

## Schottky Bypass Diode Module

JK-09E

### Features

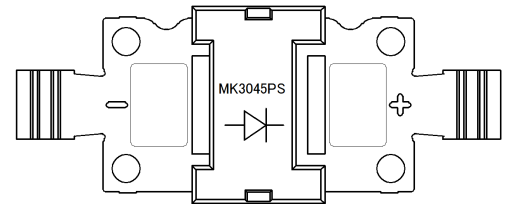
Low;stored;charge;Majority;Carrier;  
Conduction

Ultra;low;forward;voltage;drop

Low;leakage;current

Low;power;loss;and;high;efficiency

High;forward;surge;capacity;



### Application

- Schottky rectifier design for high frequency switched mode power supplies, such as adaptors and on board DC/DC converters.

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Major Rating and Characteristics(per diode) (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	45	V
Maximum RMS voltage	$V_{RMS}$	32	V
Max. DC blocking voltage	$V_{DC}$	45	V
Operating junction temperature range (AC model)	$T_{op}$	-55~150	°C
Junction temperature in DC forward current without reverse bias, $t \leq 1h$	$T_J$	-55~200	°C
Maximum DC Reverse Current at Rated DC Bolcking Voltage	$I_R$	@ $T_J=25^\circ C$ 100	uA
		@ $T_J=125^\circ C$ 55	mA
Maximum average forward current 50 % duty cycle, rectangular waveform	$I_F(AV)$	30	A
Surge non repetitive forward current	$I_{FSM}$	275	
		Peak forward surge current 8.3 ms single sine-wave superimposed on rated load per diode	



### THERMAL CHARACTERISTICS ( $T_C = 25\text{ }^\circ\text{C}$ , unless otherwise note)

PARAMETER	SYMBOL	MK3045TS	UNIT
Maximum; thermal; resistance; per;dioxide	$R_{\theta JC}$	1.0	$^\circ\text{C/W}$

### Ratings and Characteristic Curves ( $T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

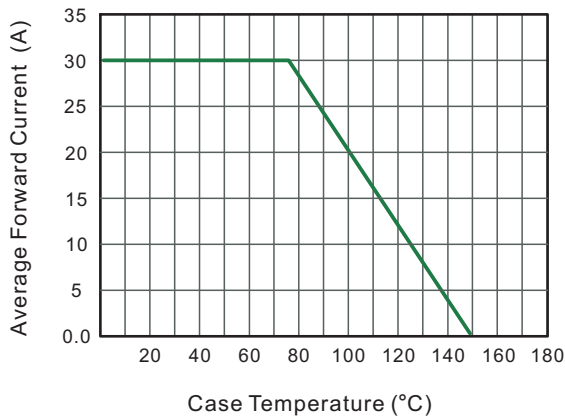


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

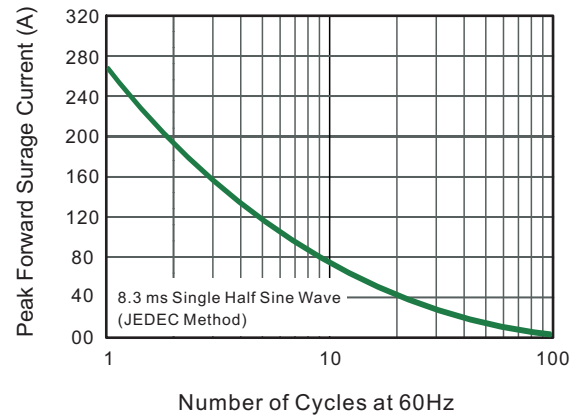


FIG.3-TYPICAL FORWARD CHARACTERISTICS

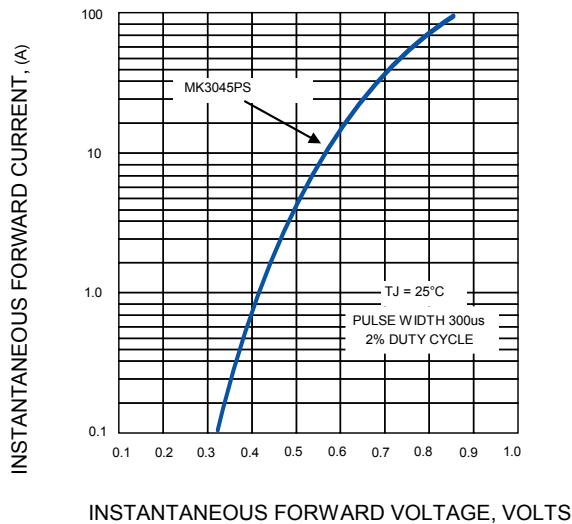
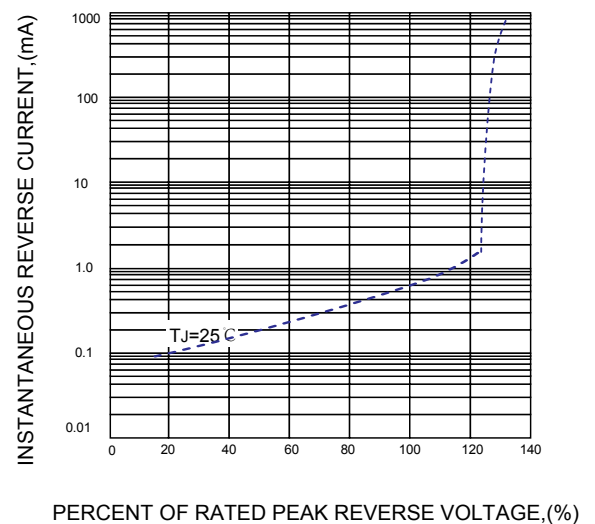


FIG.4-TYPICAL REVER CHARACTERISTICS

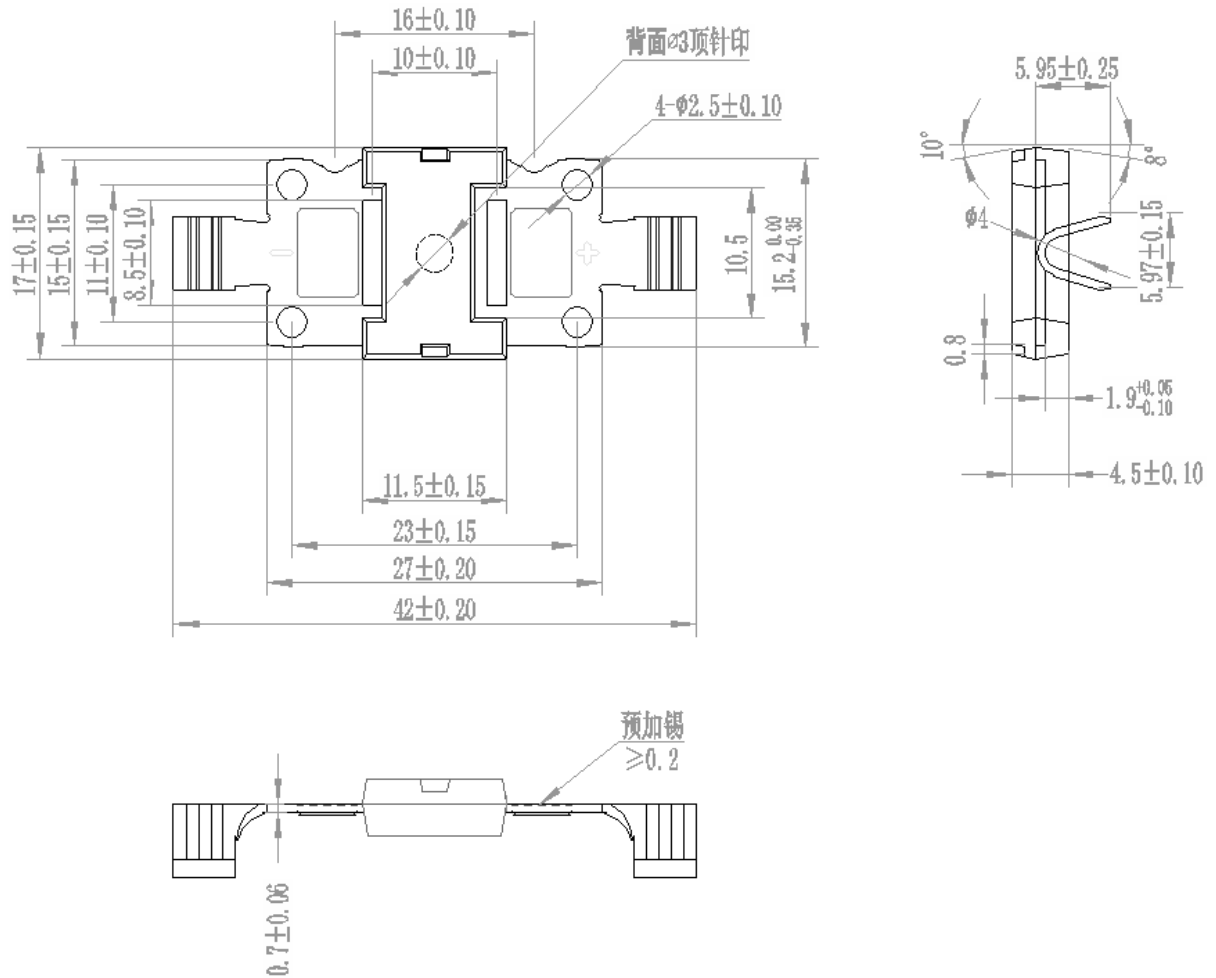




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## Schottky Bypass Diode Module

### ■Outline Dimensions (in millimeters)



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