

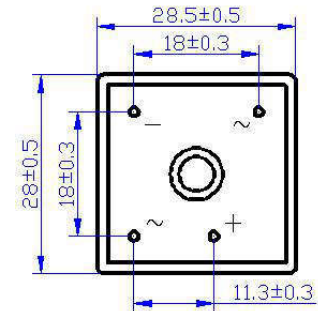
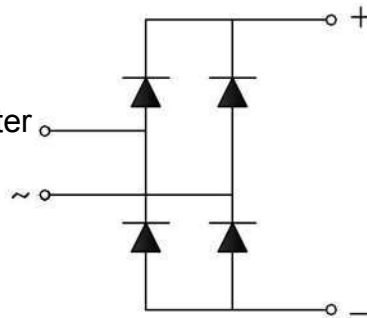
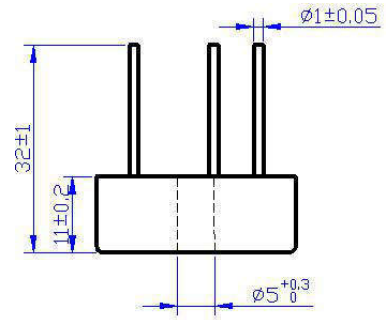
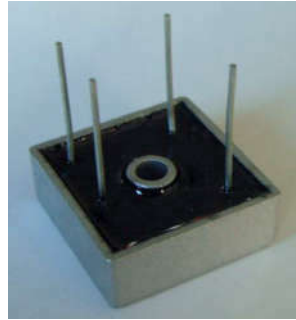
Features

- Low forward pressure drop
- Insulation Voltage 2000V
- Small thermal resistance, high thermal conductivity, low temperature rise

UL E304417

Application

- DC equipment voltage
- PWM Input rectifier for converter
- Direct current motor



Maximum value

Symbo	Parameter	Rated value			unit
		KBPC			
		5006	5008	5010	
V_{RRM}	Maximum repetitive peak reverse voltage	600	800	1000	V
V_{RSM}	Maximum RMS bridge input voltage	700	900	1100	V

Symbo	Parameter	Test Condition	Rated value	unit
$I_{F(AV)}$	Maximum average forward rectified output current	180°Half sine wave 50Hz One-sided heat dissipation $T_c=55^\circ\text{C}$	50	A
I_{FSM}	Peak forward surge current single sine-wave superimposed on rated load	$t=10\text{ms}, 50\text{Hz}, \sin, T_{jm}$	450	A
I_t	Rating for fusing I_t		890	A ² S
V_{ISO}	Insulation Voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}: 1\text{mA}(\text{max})$	2000	V
T_j	Operating junction and storage temperature range		-40 to +150	°C
T_{jm}	Rated junction temperature		150	°C
T_{stg}	Storage temperature		-40 to +125	°C
M_d	Erection moment M5		2	N·m
W_t	Weight		17	g

Electrical characteristics

Symbo	Parameter	Test Condition	Maximum	unit
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$, Half sine wave $T_j=25^\circ\text{C}$	5	μA
		$V_R=V_{RRM}$, Half sine wave $T_j=150^\circ\text{C}$	3	mA
V_{FM}	Forward peak voltage	$I_F=25\text{A}$, $T_j=25^\circ\text{C}$	1.1	V
$R_{th(j-c)}$	Thermal impedance	One-sided heat dissipation Half sine wave	1.6	°C/W

