

# Single Phase Diode Bridge KBPC8



## Key Parameters

$I_O$	=	8	A
$V_{RRM}$	=	50 - 1000	V
$I_{FSM}$	=	125	A
$I^2t$	=	110	$A^2s$

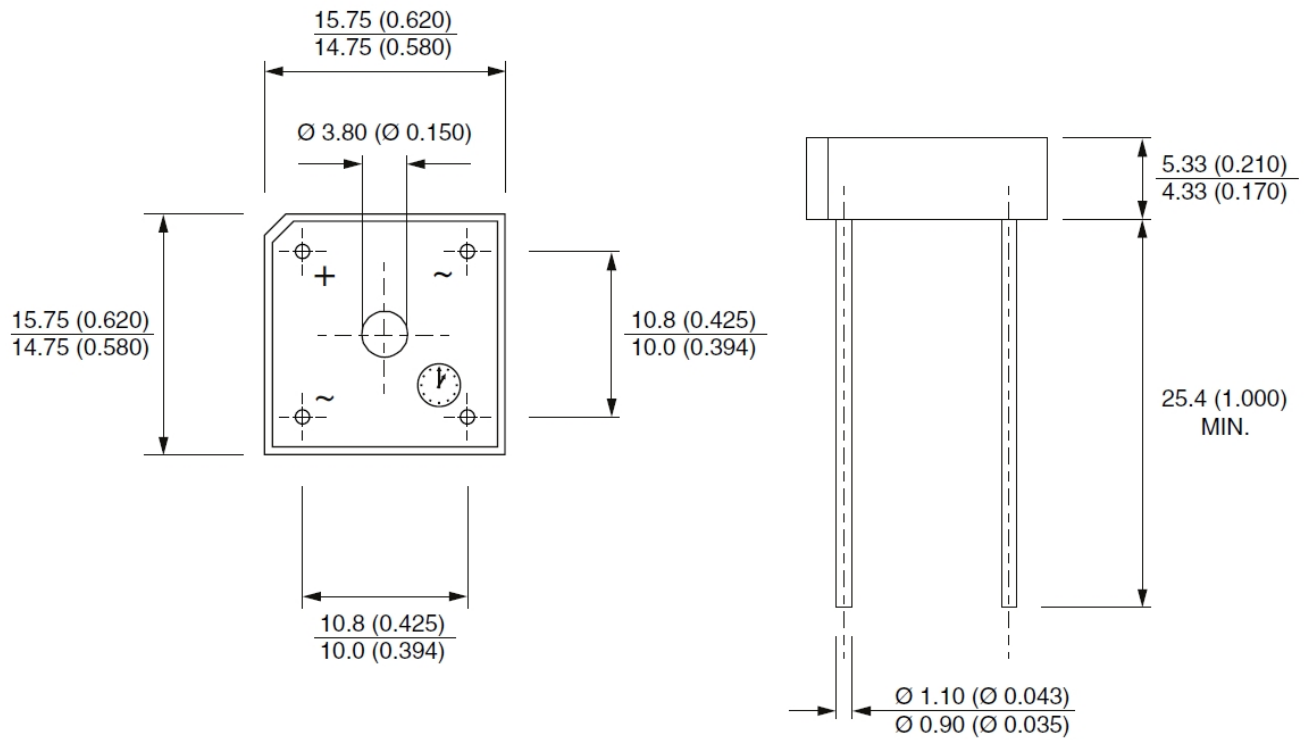
## Properties

- Compact construction
- High surge current capability
- Low reverse leakage current
- Low power loss, high efficiency

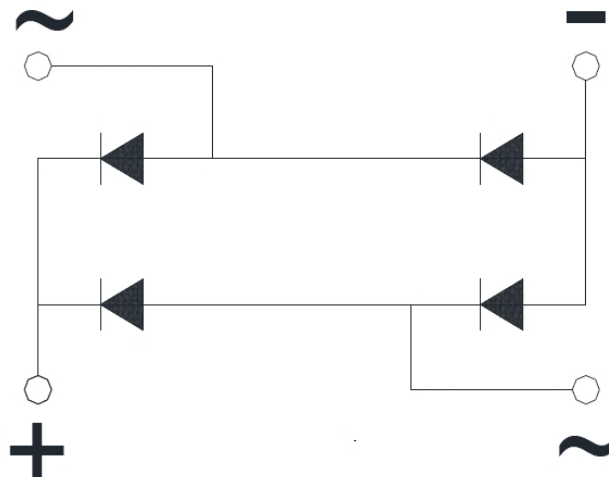
## MAXIMUM ALLOWABLE RATINGS AND ELECTRICAL CHARACTERISTICS

Symbols, parameters and values									Unit
$V_{RRM}$	Repetitive peak reverse voltage	50	100	200	400	600	800	1000	V
$I_O$	Average rectified output current	Resistive load, $T_C = 50\text{ }^\circ\text{C}$ Capacitive load, $T_C = 50\text{ }^\circ\text{C}$						8	A
								6.4	A
$I_{FSM}$	Non repetitive peak forward surge current	50 Hz 60 Hz						125	A
								137	A
$V_{FM}$	Forward voltage per leg	$I_{FM} = 3\text{ A}$						1.0	V
$I_{RM}$	Typical peak reverse leakage per diode	$T_C = 25\text{ }^\circ\text{C}$ $T_C = 150\text{ }^\circ\text{C}$						10	$\mu\text{A}$
								1.0	mA
$I^2t$	$I^2t$ rating for fusing	50 Hz 60 Hz						110	$A^2s$
								100	$A^2s$
$R_{th(jc)}$	Typical thermal resistance per leg							6	K/W
<b>W</b>	Weight							6	g
$T_j, T_{STG}$	Operation and storage temperature range							-55...+150	$^\circ\text{C}$

## DIMENSIONS



## TOPOLOGY OF INTERNAL CONNECTION



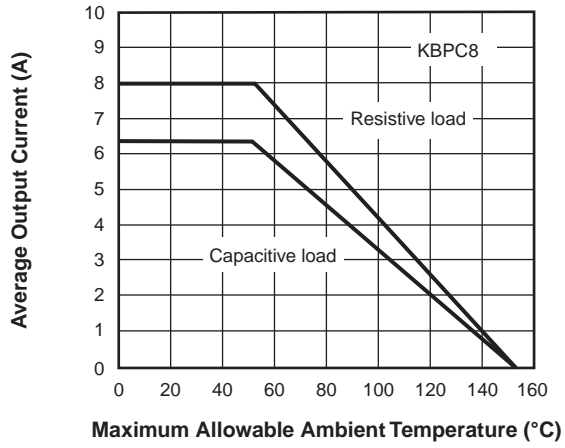


Fig. 1 - Current Ratings

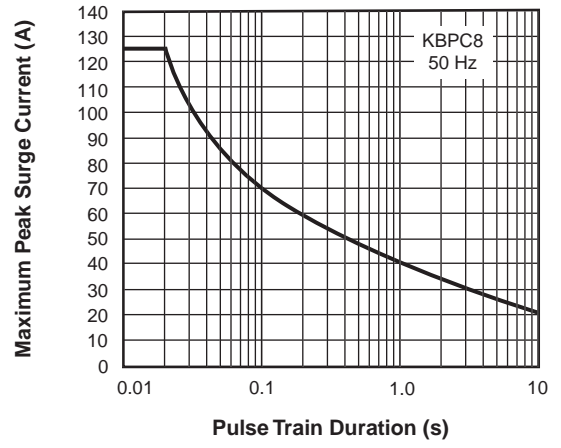


Fig. 2 - Non-Repetitive Surge Ratings