Suntan_® Su_®

KBPC6005 THRU KBPC610

SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere

FEATURES

- ♦ High Current Capability
- ♦ High Case Dielectric Strength
- ♦ High Surge Current Capability
- ◆Ideal for Printed Circuit Board Application
- Plastic Material has Underwriters Laboratory

Flammability Classification 94V-O

Mechanical Data

- ◆Case: Molded Plastic
- ◆ Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

- Polarity: Marked on Body
- ♦ Weight: 3.8 grams (approx.)
- ♦ Mounting Position: Through Hole for #6 Screw
- ♦ Mounting Torque: 5.0 Inch-pounds Maximum
- ♦ Marking: Type Number

$\begin{array}{c} \underline{0.158(4.0)} \\ \hline 0.142(3.6) \\ \hline \\ 0.445(11.3) \\ \hline \\ 0.445(11.3) \\ \hline \\ 0.445(10.3) \\ \hline \\ 0.038(0.97) \\ \hline \\ \hline \\ 0.709(18.0)MIN \\ \hline \\ 0.276(7.0) \\ \hline \\ 0.236(6.0) \end{array}$

BR-6

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%

PARAMETER	SYMBOL	KBPC 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 610	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	v
DC Blocking Voltage	V _R								
RMS Reverse Voltage	$V_{R\ (RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	Ia	60							А
$@TC = 50^{\circ}C$	Іо								
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	Іғѕм 125						А		
(JEDEC Method)	IFSM	125							Л
Forward Voltage (per element) $@I_F = 3.0A$	\mathbf{V}_{FM}	1.0V							
Peak Reverse Current $@T_C = 25^{\circ}C$	Ir	5							μΑ
At Rated DC Blocking Voltage $@T_C = 100^{\circ}C$					0.5				mA
$I^{2}t$ Rating for fusing (t < 8.3ms) (Note 2)	I ² t	64							A ² S
Typical Junction Capacitance (Note 3)	CJ	55							pF
Typical Thermal Resistance (Note 4)	Røjc	12.5							K/W
Operating and Storage Temperature Range	$T_{J,}Tstg$	-65 to +125							°C

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC. 2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

3. Mounted on metal chassis. 4. Non-repetitive, for t > 1 ms and < 8.3 ms.

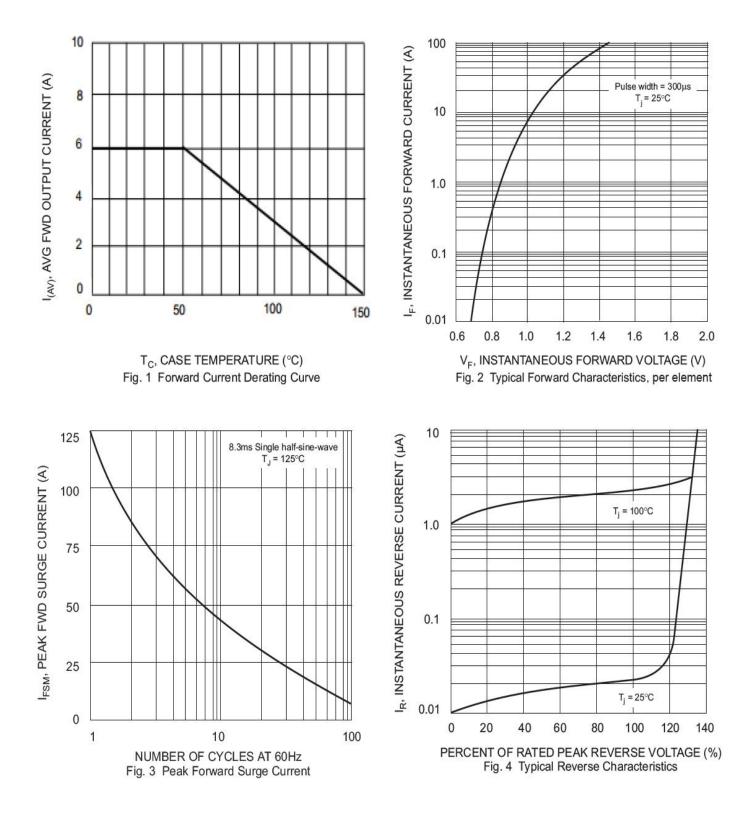
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RATING AND CHARACTERISTIC CURVES KBPC6005 THRU KBPC610



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.