

GBPC6005 THRU GBPC610

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 6.0A

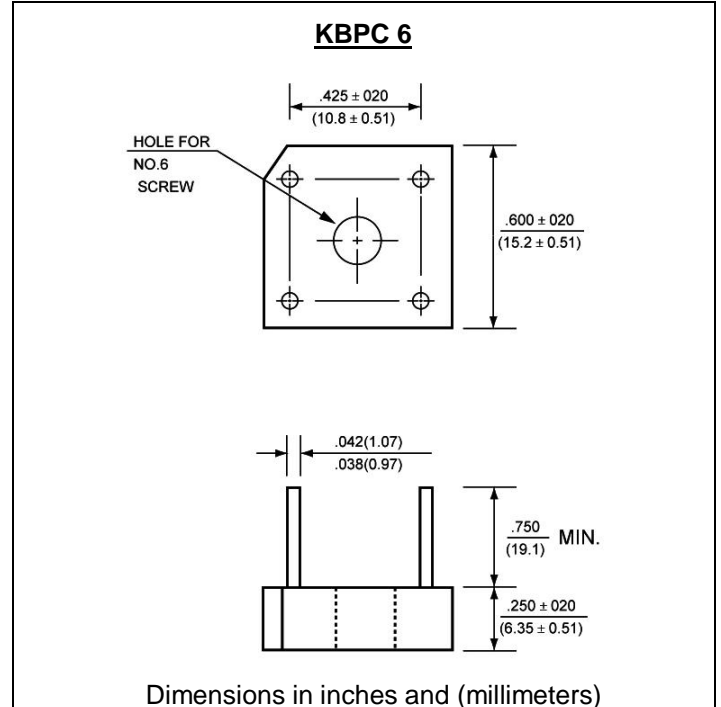


FEATURE

Surge overload rating: 175 A peak
High case dielectric strength
Glass passivated chip design

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting: Hole thru for # 6 screw



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	GBPC6 005	GBPC6 01	GBPC6 02	GBPC6 04	GBPC6 06	GBPC6 08	GBPC6 10	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _c = 50°C (note1) T _c = 40°C (note2)	I _{f(av)}	6.0 3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	175.0							A
Maximum Instantaneous Forward Voltage at forward current 3.0A DC	V _f	1.0							V
Maximum DC Reverse Current at rated DC blocking voltage T _a = 25°C T _a = 125°C	I _r	5.0 500.0							μA
Typical Junction Capacitance (note3)	C _j	186				90			pF
Operating Temperature Range	T _j	-55 to +125							°C
Storage and Operation Junction Temperature	T _{stg}	-55 to +150							°C

Notes:

1. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with #6screw
Unit mounted on 5.5x6.0x0.11"thick(14x15x0.3cm)al. plate
2. Unit mounted on P.C.B. at 0.375"(9.5mm)lead length with 0.5x0.5" (12x12mm)copper pads
3. Measured at 1.0 MHz and applied voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES GBPC6005 THRU GBPC610

