

SINGLE PHASE GLASS PSSIVATED BRIDGE RECTIFIER

KBJ601G THRU KBJ607G

VOLTAGE RANGE CURRENT 50 to 1000 Volts 6.0 Ampere

FEATURES

- Plastic package has UL flammability Classification 94V – 0
- Glass passivated chip junction
- High case dielectric strength of 1500 V_{RMS}
- · High surge current capability
- High temperature soldering guaranteed: 260 °C /10 seconds, 0.375" (9.5mm) lead length

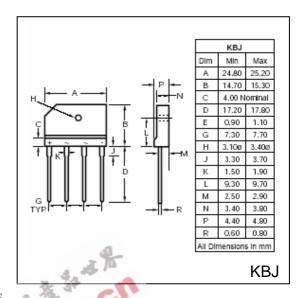
MECHANICAL DATA

• Case: Molded plastic body

• Terminals: Plated leads solderable per MIL-STD-750

Method 2026

Mounting position: any (Note 2)
Mounting Torque: 6 in-lbs max.
Weight: 0.15 ounce, 4.0 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

SYMBOLS	KBJ 601G	KBJ 602G	KBJ 603G	KBJ 604G	KBJ 605G	KBJ 606G	KBJ 607G	UNIT
Vppv								Volts
								Volts
								Volts
▼ DC	30	100	200	400	000	000	1000	VOILS
$I_{(AV)}$	6.0							Amps
I _{FSM} 175							Amps	
I^2t	120							A^2s
$V_{\rm F}$	1.0							Volts
I _R 5.0 500								
								μΑ
C_{J}	211 94					pF		
$R_{\theta JA}$	2.2						^o C/W	
T_{J}	(-55 to +150)						^o C	
T_{STG}	(-55 to +150)						^o C	
	$\begin{array}{c c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{(AV)} \\ \\ I_{FSM} \\ I^2t \\ V_F \\ I_R \\ C_J \\ R_{\theta JA} \\ T_J \end{array}$	SYMBOLS 601G V_{RRM} 50 V_{RMS} 35 V_{DC} 50 I_{(AV)} I_{FSM} I^2t V_F I_R C_J R_{0JA} T_J	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SYMBOLS 601G 602G 603G V_{RRM} 50 100 200 V_{RMS} 35 70 140 V_{DC} 50 100 200 I_{(AV)}	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Notes:

- 1. Unit mounted on 2.6" x 1.4" x 0.06" (6.5cm x 3.5cm x 0.15cm) AL plate
- 2. Recommended mounting position is to bolt down on heatsink using #6 screw and silicon thermal compound for maximum heat transfer

RATINGS AND CHARACTERISTIC CURVES KBJ601G THRU KBJ607G

