

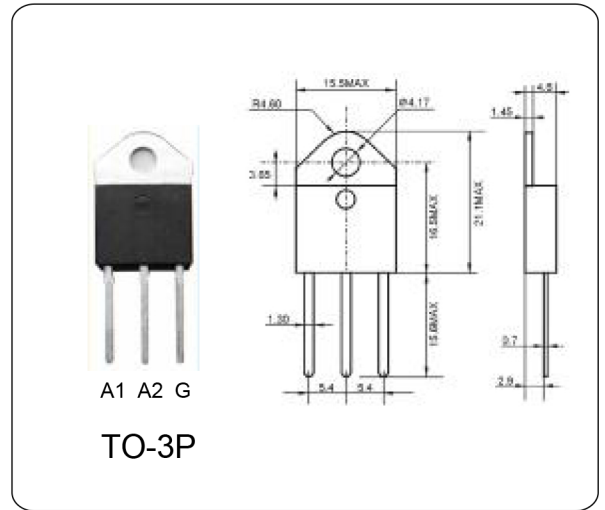
40A TRIACS

GENERAL DESCRIPTION

Available either in through-hole or surface-mount packages, the BTA/BTB41 - 800B triac series is suitable for general purpose AC switching. They can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits... or for phase control operation in light dimmers, motor speed controllers, ...

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

PARAMETER	Symbol	Value	Unit
Repetitive peak off-state voltages	V_{DRM}	800	V
peak off-state reverse voltages	V_{RRM}	800	V
RMS on-state current	I_T	40.0	A
Non-repetitive peak on-state current	I_{TSM}	420	A
Max. Operating Junction Temperature	T_j	110	°C
Storage Temperature	T_{stg}	-45~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

PARAMETER	Symbol	Test Conditions	Min.	Max	Unit
Repetitive peak off-state voltages	V_{DRM}	$I_D=0.1mA$	800	—	V
Repetitive peak off-state current	I_{DRM}	$V_{DRM}=520V$	—	10	uA
On-state voltage	V_{TM}	$I_T=60A$	—	1.55	V
Holding current	I_H	$I_T=0.5A, I_{GT}=50mA$	—	80	mA
Gate trigger Current	T2+G+	$V_{AK}=12V, R_L=30\Omega$	—	50	mA
	T2+G-		—	50	
	T2-G-		—	50	
	T2-G+		—	100	
Gate trigger Voltage	T2+G+	$V_D=12V, R_L=30\Omega$	—	1.3	V
	T2+G-		—	1.3	
	T2-G-		—	1.3	
	T2-G+		—	1.3	