



50A SCRs

BTW69-1200

DESCRIPTION

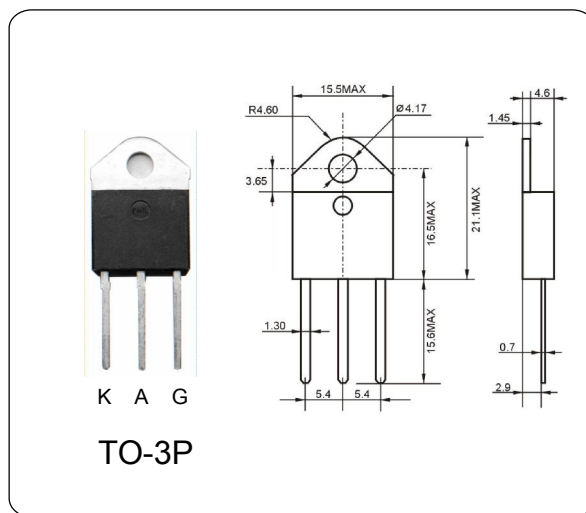
Available in high power packages, the BTW69 Series is suitable in applications where power handling and power dissipation are critical, such as solid state relays, welding equipment, high power motor control.

Based on a clip assembly technology, they offer a superior performance in surge current handling capabilities.

Thanks to their internal ceramic pad, they provide high voltage insulation (2500V RMS), complying with UL standards (file ref: E81734).

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

PARAMETER	Symbol	Value	Unit
Repetitive peak off-state voltages	V_{DRM}	1200	V
peak off-state reverse voltages	V_{RRM}	1200	V
RMS on-state current	I_{T}	50	A
Non-repetitive peak on-state current	I_{TSM}	580	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}	$I_{\text{D}}=0.1\text{mA}$	1200	—	V
Repetitive peak off-state current	I_{DRM}	$V_{\text{DRM}}=1100\text{V}$	—	10	uA
On-state voltage	V_{TM}	$I_{\text{T}}=100\text{A}$	—	1.90	V
Holding current	I_{H}	$I_{\text{T}}=0.5\text{A}$, Gate open	—	150	mA
Gate trigger Current	I_{GT}	$V_{\text{D}}=12\text{V}$, $R_{\text{L}}=33\ \Omega$	8.0	80	mA
Gate trigger Voltage	V_{GT}	$V_{\text{D}}=12\text{V}$, $R_{\text{L}}=33\ \Omega$	—	1.3	V