



## 50A SCRs

## BTW69-1200

### DESCRIPTION

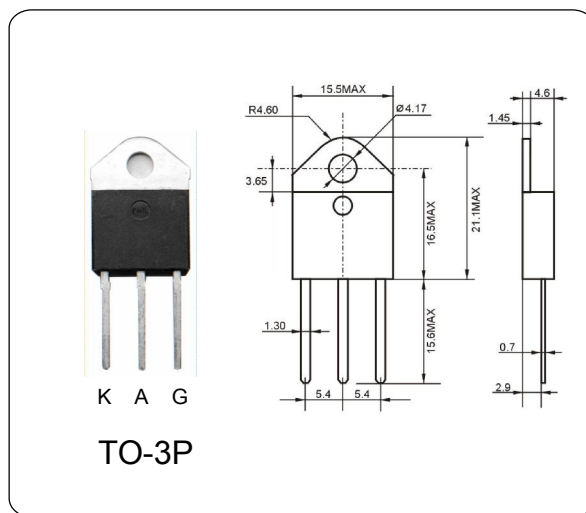
Available in high power packages, the BTW69 Series is suitable in applications where power handling and power dissipation are critical, such as solid state relays, welding equipment, high power motor control.

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	$V_{\text{DRM}}$	1200	V
peak off-state reverse voltages	$V_{\text{RRM}}$	1200	V
RMS on-state current	$I_{\text{T}}$	50	A
Non-repetitive peak on-state current	$I_{\text{TSM}}$	580	A
Max. Operating Junction Temperature	$T_{\text{j}}$	110	°C
Storage Temperature	$T_{\text{stg}}$	-45~150	°C



### ELECTRICAL CHARACTERISTICS ( Ta = 25 °C)

PARAMETER	Symbol	Test Conditions	Min.	Max	Unit
Repetitive peak off-state voltages	$V_{\text{DRM}}$	$I_{\text{D}}=0.1\text{mA}$	1200	—	V
Repetitive peak off-state current	$I_{\text{DRM}}$	$V_{\text{DRM}}=1100\text{V}$	—	10	uA
On-state voltage	$V_{\text{TM}}$	$I_{\text{T}}=100\text{A}$	—	1.90	V
Holding current	$I_{\text{H}}$	$I_{\text{T}}=0.5\text{A}$ , Gate open	—	150	mA
Gate trigger Current	$I_{\text{GT}}$	$V_{\text{D}}=12\text{V}$ , $R_{\text{L}}=33\ \Omega$	8.0	80	mA
Gate trigger Voltage	$V_{\text{GT}}$	$V_{\text{D}}=12\text{V}$ , $R_{\text{L}}=33\ \Omega$	—	1.3	V