

# THYRISTORS

## THYRISTORS

Type No.	Absolute Maximum Ratings				Electrical Characteristics		
	Repetitive Peak Off-State Voltage	Non-Repetitive Peak Off-State Voltage	Mean On-State Current	Surge On-State Current	On-State Voltage	Gate Trigger Voltage	Gate Trigger Current
	$T_j = -40^{\circ}\text{C}$ to $T_{j\text{max}}$ $R_{\text{GK}} = 1\text{k}\Omega$		50Hz Half-Cycle Sinewave Continuous Current	Non-Repetitive 50Hz Half-Cycle Sinewave Single Shot $T_{j\text{max}}$	$T_C = 25^{\circ}\text{C}$	$V_D = 6\text{V}$ $R_L = 10\text{k}\Omega$ $T_C = 25^{\circ}\text{C}$	
$V_{\text{DRM}}$ (V)	$V_{\text{DSM}}$ (V)	$I_{\text{T(AV)}}$ (A)	$I_{\text{TSM}}$ (A)	$V_{\text{TM}}$ (V)max	$V_{\text{GT}}$ (V)max	$I_{\text{GT}}$ (mA)	
TF321S	200	300	3.0 ( $T_C = 93^{\circ}\text{C}$ )	60	1.4 ( $I_{\text{TM}} = 5\text{A}$ )	0.7 typ 1.5 max	3.0 typ 15 max
TF341S	400	500					
TF361S	600	700					
TF521S	200	300	5.0 ( $T_C = 87^{\circ}\text{C}$ )	80	1.4 ( $I_{\text{TM}} = 10\text{A}$ )	1.5	3.0 typ 15 max
*TF541S	400	500					
*TF561S	600	700					
TF821S	200	300	8.0 ( $T_C = 74^{\circ}\text{C}$ )	120	1.4 ( $I_{\text{TM}} = 15\text{A}$ )	1.5	5.0 typ 15 max
*TF841S	400	500					
*TF861S	600	700					
TF541S-A	400 ( $R_{\text{GK}} = 470\text{k}\Omega$ )	500	5.0	80	1.4 ( $I_{\text{TM}} = 10\text{A}$ )	1.5	0.03 typ 0.2 max
TF561S-A	600 ( $R_{\text{GK}} = 470\text{k}\Omega$ )	700					
TF321M	200	300	3.0 ( $T_C = 102^{\circ}\text{C}$ )	60	1.4 ( $I_{\text{TM}} = 5\text{A}$ )	1.5	2.0 typ 10 max
TF341M	400	500					
TF361M	600	700					
TF521M	200	300	5.0 ( $T_C = 96^{\circ}\text{C}$ )	80	1.4 ( $I_{\text{TM}} = 10\text{A}$ )	1.5	3.0 typ 15 max
TF541M	400	500					
TF561M	600	700					
TF821M	200	300	8.0 ( $T_C = 83^{\circ}\text{C}$ )	120	1.4 ( $I_{\text{TM}} = 15\text{A}$ )	1.5	5.0 typ 15 max
TF841M	400	500					
TF861M	600	700					
TF321M-A	200	300	3.0 ( $T_C = 102^{\circ}\text{C}$ )	60	1.4 ( $I_{\text{TM}} = 5\text{A}$ )	1.0	0.1 max
TF341M-A	400	500					
TF361M-A	600	700					

\*The devices are available in UL recognized and normal specifications. The makings and shapes of UL recognized devices are slightly different from normal devices.

Sanken discrete devices are available from Allegro MicroSystems.  
Contact local representative for additional information.