

# Thyristors advanced power switching

Selection guide



October 2006

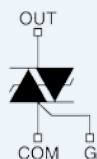
## Product symbols



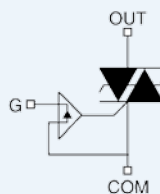
SCR



TRIAC



ACST



ACS

## Sensitive gate SCRs ( $T_j \text{ max} = 125^\circ\text{C}$ )

$I_T$ (RMS) [A]	$V_{RRM} / V_{DRM}$ [V]	$I_{TSM}^*$ [A]	$I_{GT} \text{ max}$ [ $\mu\text{A}$ ]	$I_H \text{ max}$ [mA]	$dV/dt \text{ min}$ @ $T_j \text{ max}$ [V / $\mu\text{s}$ ]	Packages		
						SOT-223	SOT-23	TO-92
0.25	200	6	200	5	200		<b>P0102BL</b>	
0.8	400	7	200	5	75	<b>P0102DN</b>		<b>P0102DA</b>
0.8	400	7	25	5	80	<b>P0111DN</b>		<b>P0111DA</b>
0.8	400	7	5	5	75	<b>P0118DN</b>		<b>P0118DA</b>
0.8	400	7	200	5	75			<b>XL0840</b>
0.8	600	7	200	5	75	<b>P0102MN</b>		<b>P0102MA</b>
0.8	600	7	25	5	80	<b>P0111MN</b>		<b>P0111MA</b>
0.8	600	7	5	5	75			<b>P0118MA</b>
0.8	600	9	200	5	25			<b>X00602MA</b>
1.25	600	22.5	200	5	10	<b>X0202MN</b>		<b>X0202MA</b>
1.25	600	22.5	50	5	15	<b>X0205MN</b>		<b>X0205MA</b>
1.25	800	22.5	200	5	10	<b>X0202NN</b>		<b>X0202NA</b>
1.25	800	22.5	50	5	15			<b>X0205NA</b>

$I_T$ (RMS) [A]	$V_{RRM} / V_{DRM}$ [V]	$I_{TSM}^*$ [A]	$I_{GT} \text{ max}$ [mA]	$I_H \text{ max}$ [mA]	$dV/dt \text{ min}$ @ $T_j \text{ max}$ [V / $\mu\text{s}$ ]	Packages			
						DPAK	IPAK	TO202-3	TO-220AB
4	600	30	200	5	5	<b>TS420-600B</b>	<b>TS420-600H</b>		<b>TS420-600T</b>
4	600	30	200	5	10			<b>X0402MF</b>	
4	600	30	50	5	15			<b>X0405MF</b>	
4	800	30	200	5	10			<b>X0402NF</b>	
4	800	30	50	5	15			<b>X0405NF</b>	
8	600	70	200	5	5	<b>TS820-600B</b>	<b>TS820-600H</b>		<b>TS820-600T</b>
12	600	110	200	5	5	<b>TS1220-600B</b>	<b>TS1220-600H</b>		

\*  $t_p = 10\text{ms}$   $I_{TSM}$ ,  $I_{GT}$ ,  $I_H$  and  $V_{TM}$  specified at  $T_j = 25^\circ\text{C}$

## Standard SCRs (Tj max = 125°C)

IT (RMS) [A]	VRRM / VDRM [V]	ITSM* [A]	IGT max [mA]	IH max [mA]	dV / dt min @ Tj max [V / μs]	Packages			
						DPAK	D <sup>2</sup> PAK	IPAK	TO-220AB
8	600	70	5	25	50	TN805-600B		TN805-600H	
8	600	70	15	40	150	TN815-600B		TN815-600H	
8	600	95	15	30	150				TYN608
8	800	70	5	20	50	TN805-800B			
8	800	70	15	40	150	TN815-800B			
8	800	95	15	30	150				TYN808
8	1000	95	15	30	150				TYN1008
12	600	110	15	40	200	TN1215-600B		TN1215-600H	
12	600	140	15	30	200		TN1215-600G		
12	600	140	15	30	200				TYN612
12	600	140	5	15	40				TYN612T
12	800	110	15	40	200	TN1215-800B			
12	800	140	15	30	200		TN1215-800G		
12	800	140	15	30	200				TYN812
12	800	140	5	15	40				TYN812T
12	1000	140	15	30	200				TYN1012
12	1000	140	5	15	40				TYN1012T
16	600	190	25	40	500		TN1625-600G		TYN616
16	800	190	25	40	500		TN1625-800G		TYN816
16	1000	190	25	40	500		TN1625-1000G		
25	600	300	40	50	500		TN2540-600G		TYN625
25	800	300	40	50	500		TN2540-800G		TYN825
25	1000	300	40	50	500		TN2540-1000G		
40	600	460	35	75	1000		TN4035-600G		TYN640
40	800	460	35	75	1000				TYN840

IT (RMS) [A]	VRRM / VDRM [V]	ITSM* [A]	IGT max [mA]	IH max [mA]	dV / dt min @ Tj max [V / μs]	Packages	
						RD91	TOP3 Ins
30	600	400	50	75	500		BTW68-600
30	800	400	50	75	500		BTW68-800
30	1000	400	50	75	250		BTW68-1000
50	600	580	80	150	500	BTW67-600	BTW69-600
50	800	580	80	150	500	BTW67-800	BTW69-800
50	1200	580	80	150	250	BTW67-1200	BTW69-1200

## SCR modules

IT (RMS) [A]	VRRM / VDRM [V]	ITSM* [A]	IGT max [mA]	IH max [mA]	dV / dt min @ Tj max [V / μs]	Package
						ISOTOP
55	800	400	50	80	1000	MSS40-800
55	1200	400	50	80	1000	MSS40-1200
70	800	600	50	80	1000	MSS50-800
70	1200	600	50	80	1000	MSS50-1200

\* tp = 10ms ITSM, IGT, IH and VTM specified at Tj = 25°C MSS: two SCRs in back-to-back configuration

## Standard triacs

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	I <sub>TSM</sub> * [A]	I <sub>GT</sub> max (I > III) [mA]	I <sub>GT</sub> max (IV) [mA]	(dV/dt) <sub>c</sub> min [V / μs]	dV/dt min [V / μs]	Packages		
							SOT-223	TO-92	TO202-3
0.8	600	9	5	7	1.5	10		Z00607MA	
1	600	8	3	5	0.5	10	Z0103MN	Z0103MA	
1	600	8	5	7	1	20	Z0107MN	Z0107MA	
1	600	8	10	10	2	50	Z0109MN	Z0109MA	
1	600	8	25	25	5	100	Z0110MN	Z0110MA	
1	800	8	3	5	0.5	10		Z0103NA	
1	800	8	5	7	1	20	Z0107NN	Z0107NA	
1	800	8	10	10	2	50	Z0109NN	Z0109NA	
1	800	8	25	25	5	100		Z0110NA	
4	600	20	3	3	0.5	100			Z0402MF
4	600	20	5	5	1	20			Z0405MF
4	600	20	10	10	2	100			Z0409MF
4	600	20	25	25	5	200			Z0410MF
4	800	20	5	5	1	20			Z0405NF
4	800	20	10	10	2	100			Z0409NF
4	800	20	25	25	5	200			Z0410NF

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	I <sub>TSM</sub> * [A]	I <sub>GT</sub> max (I > III) [mA]	I <sub>GT</sub> max (IV) [mA]	(dV/dt) <sub>c</sub> min [V / μs]	dV/dt min [V / μs]	Packages	
							TO-220AB	TO-220AB Ins.
4	600	35	10	25	10	75	BTB04-600SL	
6	600	60	50	100	10	400	BTB06-600BRG	BTA06-600BRG
6	600	60	25	50	5	200	BTB06-600CRG	BTA06-600CRG
6	800	60	50	100	10	400	BTB06-800BRG	BTA06-800BRG
6	800	60	25	50	5	200	BTB06-800CRG	BTA06-800CRG
8	600	80	50	100	10	400	BTB08-600BRG	BTA08-600BRG
8	600	80	25	50	5	200	BTB08-600CRG	BTA08-600CRG
8	800	80	50	100	10	400	BTB08-800BRG	BTA08-800BRG
8	800	80	25	50	5	200	BTB08-800CRG	BTA08-800CRG
10	600	100	50	100	10	400	BTB10-600BRG	BTA10-600BRG
10	600	100	25	50	5	200	BTB10-600CRG	BTA10-600CRG
10	800	100	50	100	10	400	BTB10-800BRG	BTA10-800BRG
10	800	100	25	50	5	200	BTB10-800CRG	BTA10-800CRG
12	600	120	50	100	10	400	BTB12-600BRG	BTA12-600BRG
12	600	120	25	50	5	200	BTB12-600CRG	BTA12-600CRG
12	800	120	50	100	10	400	BTB12-800BRG	BTA12-800BRG
12	800	120	25	50	5	200	BTB12-800CRG	BTA12-800CRG
16	600	160	50	100	10	400	BTB16-600BRG	BTA16-600BRG
16	600	160	25	50	5	200	BTB16-600CRG	BTA16-600CRG
16	800	160	50	100	10	400	BTB16-800BRG	BTA16-800BRG
16	800	160	25	50	5	200	BTB16-800CRG	BTA16-800CRG

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	I <sub>TSM</sub> * [A]	I <sub>GT</sub> max (I > III) [mA]	I <sub>GT</sub> max (IV) [mA]	(dV/dt) <sub>c</sub> min [V / μs]	dV/dt min [V / μs]	Packages			
							RD91	TOP3	TOP3I	TO-220AB
25	600	250	50	100	10	500	BTA25-600B	BTB26-600BRG	BTA26-600BRG	BTB24-600BRG
25	800	250	50	100	10	500	BTA25-800B	BTA26-800BRG		BTB24-800BRG
40	600	400	50	100	10	500	BTA40-600B	BTB41-600BRG	BTA41-600BRG	
40	800	400	50	100	10	500	BTA40-800B	BTB41-800BRG	BTA41-800BRG	

\* t<sub>p</sub> = 20ms I<sub>TSM</sub>, I<sub>GT</sub>, I<sub>H</sub> and V<sub>TM</sub> specified at T<sub>J</sub> = 25°C

## Snubberless & logic level triacs

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	I <sub>TSM</sub> * [A]	I <sub>GT</sub> max (I > III) [mA]	(di/dt) <sub>c</sub> min [A/ms]	dV/dt min [V/μs]	Packages					
						DPAK	D <sup>2</sup> PAK	IPAK	ISOWATT220AB	TO-220AB	TO-220AB Ins.
4	600	30	5	0.9	20	T405-600B		T405-600H	T405-600W	T405-600T	
4	600	30	10	2	40	T410-600B		T410-600H	T410-600W	T410-600T	
4	600	30	35	2.5	400	T435-600B		T435-600H	T435-600W	T435-600T	
4	800	30	5	0.9	20	T405-800B		T405-800H	T405-800W	T405-800T	
4	800	30	10	2	40	T410-800B		T410-800H	T410-800W	T410-800T	
4	800	30	35	2.5	400	T435-800B		T435-800H	T435-800W	T435-800T	
6	600	60	50	5.3	1000					BTB06-600BWRG	BTA06-600BWRG
6	600	60	35	3.5	400					BTB06-600CWRG	BTA06-600CWRG
6	600	60	10	2.4	40					BTB06-600SWRG	BTA06-600SWRG
6	600	60	5	1.2	20					BTB06-600TWRG	BTA06-600TWRG
6	600	80	20	3.3	300						T620-600W
6	600	80	30	4.5	500						T630-600W
8	600	80	50	7	1000					BTB08-600BWRG	BTA08-600BWRG
8	600	80	35	4.5	400					BTB08-600CWRG	BTA08-600CWRG
8	600	80	10	2.8	40					BTB08-600SWRG	BTA08-600SWRG
8	600	80	5	1.5	20					BTB08-600TWRG	BTA08-600TWRG
8	600	80	10	2.5	40	T810-600B					
8	600	80	35	4.5	400	T835-600B					
8	600	80	35	4.5	400		T835-600G				
8	800	80	50	7	1000					BTB08-800BWRG	BTA08-800BWRG
8	800	80	35	4.5	400					BTB08-800CWRG	BTA08-800CWRG
8	800	80	10	2.8	40					BTB08-800SWRG	BTA08-800SWRG
8	800	80	5	1.5	20					BTB08-800TWRG	BTA08-800TWRG
8	800	80	10	2.8	40	T810-800B					
8	800	80	35	4.5	400	T835-800B					
8	800	100	20	4.5	300			T820-800W			
8	800	100	30	4.5	500			T830-800W			
10	600	100	50	9	1000					BTB10-600BWRG	BTA10-600BWRG
10	600	100	35	5.5	500					BTB10-600CWRG	BTA10-600CWRG
10	800	100	50	9	1000					BTB10-800BWRG	BTA10-800BWRG
10	800	100	35	5.5	500					BTB10-800CWRG	BTA10-800CWRG
12	600	120	50	12	1000					BTB12-600BWRG	BTA12-600BWRG
12	600	120	35	6.5	500					BTB12-600CWRG	BTA12-600CWRG
12	600	120	10	2.9	40					BTB12-600SWRG	BTA12-600SWRG
12	600	120	35	6.5	500		T1235-600G				
12	800	120	50	12	1000					BTB12-800BWRG	BTA12-800BWRG
12	800	120	35	6.5	500					BTB12-800CWRG	BTA12-800CWRG
12	800	120	10	2.9	40					BTB12-800SWRG	BTA12-800SWRG
12	800	120	35	6.5	500		T1235-800G				
16	600	160	50	14	1000					BTB16-600BWRG	BTA16-600BWRG
16	600	160	35	8.5	500					BTB16-600CWRG	BTA16-600CWRG
16	600	160	10	3	40					BTB16-600SWRG	BTA16-600SWRG
16	600	200	20	8.5	300			T1620-600W			
16	600	200	30	11	500			T1630-600W			
16	600	160	35	8.5	500		T1635-600G				
16	800	160	50	14	1000					BTB16-800BWRG	BTA16-800BWRG
16	800	160	35	8.5	500					BTB16-800CWRG	BTA16-800CWRG

\* t<sub>p</sub> = 20ms I<sub>TSM</sub>, I<sub>GT</sub>, I<sub>H</sub> and V<sub>TM</sub> specified at T<sub>j</sub> = 25°C

## Snubberless & logic level triacs cont'd.

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	I <sub>TSM</sub> * [A]	I <sub>GT</sub> max (I > III) [mA]	(di/dt) <sub>c</sub> min [A / ms]	dV/dt min [V / μs]	Packages				
						D <sup>2</sup> PAK	RD91	TOP3I	TO-220AB	TO-220AB Ins.
25	600	250	50	22	1000				BTB24-600BWRG	BTA24-600BWRG
25	600	250	35	13	500				BTB24-600CWRG	BTA24-600CWRG
25	600	250	50	22	1000		BTA25-600BW			
25	600	250	35	13	500		BTA25-600CW			
25	600	250	50	22	1000			BTA26-600BWRG		
25	600	250	35	13	500	T2535-600G				
25	800	250	50	22	1000				BTB24-800BWRG	BTA24-800BWRG
25	800	250	35	13	500				BTB24-800CWRG	BTA24-800CWRG
25	800	250	50	22	1000		BTA25-800BW			
25	800	250	50	22	1000			BTA26-800BWRG		
25	800	250	35	13	500			BTA26-800CWRG		
25	800	250	35	13	500	T2535-800G				

## High temperature triacs - snubberless

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	T <sub>C</sub> [°C]	I <sub>TSM</sub> * [A]	I <sub>GT</sub> max (I > III) [mA]	(di/dt) <sub>c</sub> min† [A/ms]	R <sub>th(j-c)</sub> max [°C / W]	Packages		
							D <sup>2</sup> PAK	TO-220AB	TO-220AB Ins.
12	600	135	140	35	5.3	1.2	T1235H-600G	T1235H-600T	
16	600	130	160	35	7.1	1.2	T1635H-600G	T1635H-600T	T1635H-600I
20	600	127	200	35	8.9	1	T2035H-600G	T2035H-600T	
25	600	125	250	50	11.1	0.8		T2550H-600T	

## Diacs

V <sub>BO</sub>			V <sub>BO</sub> symmetry [V]	I <sub>BO</sub> max [μA]	ΔV (dynamic V <sub>BO</sub> ) [V]	Packages	
min [V]	typ [V]	max [V]				DO-35	SOT-23
28	32	36	±3	50	5	DB3	
30	32	34	±2	15	9	DB3TG	
35	40	45	±3	50	5	DB4	
28	32	36	±3	10	10		SMDDB3

## ASDs<sup>†</sup> ignitors for industrial applications

Fire lighter circuit: control circuit for gas hobs, fuel ignition, electrical fences

Fire lighter circuits have been developed for systems with gas ignition like furnaces, boilers, fuel control ignition, gas ranges and barbecues. They are based on spark generation through capacitive discharge mode and provide high pulse and high noise immunity level in a fully integrated solution.

Voltage Source [V]	V <sub>BO</sub>		Peak current @ 10μs [A]	Packages		
	min [V]	max [V]		DPAK	IPAK	TO-92
220V AC	206	233	190	FLC01-200B	FLC01-200H	
220V AC	206	233	240	FLC10-200B	FLC10-200H	
DC Battery	140	160	90			FLC21-135A

\* tp = 20ms † Without snubber

ITSM, IGT, IH and VTM specified at T<sub>j</sub> = 25°C

New products in green

## ASDs<sup>▼</sup> Ignitors for lighting applications

Sensitive gate SCRs ( $T_j$  max = 125°C)

$I_T$ (RMS) [A]	$V_{RRM} / V_{DRM}$ [V]	$I_{TSM}^*$ [A]	$I_{GT}$ max [μA]	$I_H$ max [mA]	$dV/dt$ min @ $T_j$ max [V / μs]	Packages		
						DPAK	IPAK	TO-92
0.8	100	7	1	5	25			P0130AA
2	400	1.5	1500	175	500	TN22-1500B	TN22-1500H	

## ASDs<sup>▼</sup> Ignitors for lighting applications

LIC: high intensity discharge lamp starter

The LIC is the core of the electronic ignitors for high intensity discharge lamps supplied by magnetic ballast. The main applications are outdoor, street or building lighting fixtures using high pressure Sodium or Metal Halide lamps. The LIC devices provide a high pulse current capability and a low holding current, to secure lamp ignition with multi-pulse striking, while offering high reliability level and space saving as a stand-alone circuit.

$V_{B0}$		Peak pulse current @ 10μs [A]	$I_H$ min [mA]	$dV/dt$ max [A / μs]	Packages	
min [V]	max [V]				DPAK	IPAK
195	230	50	50	80		LIC01-195H
215	255	50	50	80	LIC01-215B	LIC01-215H

## ASDs<sup>▼</sup> for industrial applications

Inrush current limitation circuit

The STIL is a circuit combining two unidirectional switches for use in a controlled bridge primary rectification configuration. Compared to the traditional inrush current limitation circuits, the SCR bridge configuration using the STIL offers reduced power losses and higher efficiency, reduced size, full operation during A.C. on / off cycles with PFC and absence of PCB hot spots during nominal operation.

$V_{Dout} / V_{Rout}$ [V]	$I_{out}$ (AV) [A]	$I_{TSM}^*$ [A]	$I_{p1} + I_{p2}$ typ [mA]	$I_{rout}$ (on) [μA]	$V_F$ @ $I_{out}(AV)$		$dV_{Dout} / dt$ min @ $T_j$ max [V / μs]	Packages	
					[V]	[A]		PENTAWATT	TO-220 5L
700	4	65	20	300	1.2	4	500	STIL04-P5	
700	6	-	20	300	1.1	6	500		STIL06-T5
700	8	-	20	300	1	8	500		STIL08-T5

Power control circuit

The STCC is a control circuit that fully embeds the monitoring and driving functions required for power and safety management in ovens, air conditioners, refrigerators and washers.

$V_{IN}$ [V]		$V$ Supply [V] typ	Temp [°C]	Functions			Input Interface	Packages	
min	max			ZVS	Driver	Security		DIP-16	DIP-20
7	27	5	-10 to 85	Yes	2 Relays 1 Buzzer	Door close Reset		STCC02	
9	18	5	-20 to 85	Yes	4 Relays 1 Buzzer	Reset	Speed Sensor		STCC05

Current limited overvoltage protected quad digital termination

The CLT3-4 is a 3mA quadruple input digital termination device designed for 24V DC automation applications. It achieves the compact front-end of a digital input by minimizing the external component count, so reducing the printed board size and the losses in conduction. The CLT3-4 application is the termination for IEC61131-2 type 1 input and logic interface for EN60947-5-2 proximity sensor in Industrial Automation such as: Programmable Logic Controller, Field bus nodes and Machine tool interface.

$V_{CC}$ [V]	$V_I$ [V]	$I_{LIM}$ min / max [mA]	$I_{OFF} / V_{OFF}$ [mA / V]	ESD in air [kV]	Surge 1.2 / 50μs [kV]	Package
19 to 35	-30 to +35	2.1 / 3.7	1.5 / 5	±8	1	TSSOP20
						CLT3-4BT6

\*  $t_p = 10$ ms    ITSM, IGT,  $I_H$  and VTM specified at  $T_j = 25^\circ\text{C}$     \*ASD: application specific devices

[New products in green](#)

## Dual current limited overvoltage protected digital termination

The PCLT-2A is a dual sensor termination device to be included in the design of the front-end of a 24 V DC digital input module in factory automation. Its flexibility allows designers to develop a large variety of input types in isolated and unisolated versions. The current limiters are programmable from 2.5mA to 7.5mA typical. With its robust protection and its current limiter, it is a low-loss EMI-proof solution for highly integrated module interfacing with proximity detectors.

V <sub>CC</sub> [V]	V <sub>I</sub> [V]	I <sub>LIM</sub> min / max [mA]	I <sub>OFF</sub> / V <sub>OFF</sub> [mA / V]	ESD in air [kV]	Surge 1.2 / 50µs [kV]	Package
						TSSOP14 (exposed pad)
19 to 35	-30 to 35	6.1 / 8.8 2.8 / 4.3	2 / 5	±15	0.5/1	PCLT-2AT4

## AC switches

ACS™ and ACST devices for home appliances

The ACS series is a new generation of switches specifically developed for home appliances and industrial processing applications. Thanks to their integrated overvoltage protection and level shifter, no MOV protection is needed, they provide safety such as defined in IEC61000 standards, and are easy to drive directly from microprocessors. The ACST series keeps the overvoltage protection structure of the ACS with standard gate sensitivity.

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	Part number	V <sub>CL</sub> @ 1mA Typ <sup>◇</sup> [V]	I <sub>GT</sub> max [mA]	(di / dt) <sub>c</sub> @ T <sub>j</sub> = 125°C [A / ms]	dV/dt @ T <sub>j</sub> = 125°C [V / µs]	Packages
4	700	ACST4-7CB	1100	25	2.5	500	DPAK
4	700	ACST4-7CH	1100	25	2.5	500	IPAK
4	700	ACST4-7CFP	1100	25	2.5	500	TO-220FPAB
4	700	ACST4-7SB	1100	10	2	200	DPAK
4	700	ACST4-7SH	1100	10	2	200	IPAK
4	700	ACST4-7SFP	1100	10	2	200	TO-220FPAB
6	700	ACST6-7SG	1100	10	3	200	D <sup>2</sup> PAK
6	700	ACST6-7SR	1100	10	3	200	I <sup>2</sup> PAK
6	700	ACST6-7ST	1100	10	3	200	TO-220AB
6	700	ACST6-7SFP	1100	10	3	200	TO-220FPAB
8	800	ACST8-8CG	1100	30	4.5	500	D <sup>2</sup> PAK
8	800	ACST8-8CT	1100	30	4.5	500	TO-220AB
8	800	ACST8-8CFP	1100	30	4.5	500	TO-220FPAB

I <sub>T</sub> (RMS) [A]	V <sub>RRM</sub> / V <sub>DRM</sub> [V]	Part number	V <sub>CL</sub> @ 1mA Typ <sup>◇</sup> [V]	I <sub>GT</sub> max [mA]	(di / dt) <sub>c</sub> @ T <sub>j</sub> = 125°C [A / ms]	dV/dt @ T <sub>j</sub> = 125°C [V / µs]	Packages
3 x 0.2	500	ACS302-5S3	600	5	0.15 <sup>△</sup>	300 <sup>△</sup>	S0-20
4 x 0.2	500	ACS402-5SB4	600	10	0.3 <sup>△</sup>	500 <sup>△</sup>	DIP-20
0.2	600	ACS102-6S1	700 <sup>◆</sup>	5	0.15	300	S0-8
0.2	600	ACS102-6SA	700 <sup>◆</sup>	5	0.15	300	TO-92
0.8	600	ACS108-6SN	700 <sup>◆</sup>	10	0.3	500	SOT-223
0.8	600	ACS108-6SA	700 <sup>◆</sup>	10	0.3	500	TO-92
1	700	ACS110-7SB2	1100	10	0.5	500	DIP-8
1	700	ACS110-7SN	1100	10	0.5	500	SOT-223
2	700	ACS120-7SB	1100	10	1	500	DPAK
2	700	ACS120-7ST	1100	10	1	500	TO-220AB
2	700	ACS120-7SFP	1100	10	1	500	TO-220FPAB

◇ tp = 1ms ◆ Minimum value △ T<sub>j</sub> = 110°C IGT and VTM specified at T<sub>j</sub> = 25°C New products in green



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