

**HCT FAMILY : LOGIC LEVEL TRIACS**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> @ V <sub>DRM</sub>  @ T <sub>j</sub> max max (mA)	Suffix	I <sub>GT</sub> (mA) max			I <sub>H</sub>  max (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		(di/dt) <sub>c</sub> @ (dv/dt) <sub>c</sub> = 0.1 V/μs  @ T <sub>j</sub> max min (A/ms)	dv/dt @ 67% V <sub>DRM</sub>  @ T <sub>j</sub> max min (V/μs)	Package
					I	II	III		max (V)	max (A)			
					+	+	-	-					

**6 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 18 A<sup>2</sup>s**

BTA / BTB 06-400 → 700	400→700	60	1	TW SW	5 10	5 10	5 10	15 25	1.75	8.5	2.7 3.5	20 50	TO220AB
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**8 Arms/T<sub>case</sub> = 80°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 32 A<sup>2</sup>s**

BTA / BTB 08-400 → 700	400→700	80	1	TW SW	5 10	5 10	5 10	15 25	1.75	11	3.5 4.5	20 50	TO220AB
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**12 Arms/T<sub>case</sub> = 75°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 72 A<sup>2</sup>s**

BTA / BTB 12-400 → 700	400→700	120	1	SW	10	10	10	25	1.75	17	5.3	50	TO220AB
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Note: BTA insulated (insulating voltage = 2500 V<sub>RMS</sub>). BTB uninsulated.

**HCT FAMILY : AUTOMATIC VOLTAGE SWITCH**

Type	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> @ V <sub>DRM</sub>  @ T <sub>j</sub> max max (mA)	Suffix		V <sub>TM</sub> @ I <sub>TM</sub>			Package
						max (V)	max (A)		

**5 Arms/T<sub>case</sub> = 100°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 21 A<sup>2</sup>s**

AVS08	500	65	10 T <sub>j</sub> =25°C	CB (1)	DEDICATED TRIAC AVS08CB WITH DRIVER AVS1BCP08	1.65	7	Monitor and TV ≤ 200 W	TO220AB
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**8 Arms/T<sub>case</sub> = 80°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 32 A<sup>2</sup>s**

AVS10	600	80	0.5	CB (1)	DEDICATED TRIAC AVS10CB WITH DRIVER AVS1BCP08	1.75	11	Monitor and TV ≤ 300 W	TO220AB
▲ AVS20	600	80	0.5	CB(1)	DEDICATED TRIAC AVS10CB WITH DRIVER AVS2ACP08	1.75	11	PC (dedicated) ≤ 300 W	TO220AB
▲ AVS200	800	80	0.5	CB	DEDICATED TRIAC AVS100CB WITH DRIVER AVS2ACP08	1.75	11	PC (dedicated) ≤ 300 W	TO220AB

**12 Arms/T<sub>case</sub> = 70°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 50 A<sup>2</sup>s**

AVS12	600	100	0.5	CB (1)	DEDICATED TRIAC AV12CB WITH DRIVER AVS1ACP08	1.75	17	Monitor and TV ≤ 500 W	TO220AB
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(1): CBI insulated (insulating voltage = 2500 V<sub>RMS</sub>). CB uninsulated.

▲ : New product.

**HCT FAMILY : SNUBBERLESS™ TRIACS**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> @ V <sub>DRM</sub> @ T <sub>j</sub> max max (mA)	Suffix	I <sub>GT</sub> (mA) max			I <sub>H</sub> max (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		(di/dt) <sub>c</sub> Without Snubber @ T <sub>j</sub> max min (A/ms)	dv/dt @ 67% V <sub>DRM</sub> @ T <sub>j</sub> max min (V/μs)	Suffix Pack.	Package
					I	II	III		(V)	(A)				

**4 Arms/T<sub>case</sub> = 110°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 4.5 A<sup>2</sup>s**

▲ T405	400 → 600	30	2	05	05	05	05	10	1.75	5.5	1.8	05	D K T W	SOT 82 SOT 194 TO220AB ISOWAT- T220AB
T410	400 → 800	30	2	10	10	10	10	15	1.75	5.5	2.7	50		
T435	400 → 800	30	2	35	35	35	35	35	1.75	5.5	5.3	250		

**6 Arms/T<sub>case</sub> = 105°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 18 A<sup>2</sup>s**

BTA / BTB 06-400 → 800	400 → 800	60	2	BW CW	50 35	50 35	50 35	50 35	1.75	8.5	5 3.5	500 250		TO220AB
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**8 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 32 A<sup>2</sup>s**

BTA / BTB 08-400 → 800	400 → 800	80	2	BW CW	50 35	50 35	50 35	50 35	1.75	11	7 4.5	500 250		TO220AB
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**10 Arms/T<sub>case</sub> = 110°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 50 A<sup>2</sup>s**

BTA / BTB 10-400 → 800	400 → 800	100	2	BW CW	50 35	50 35	50 35	50 35	1.65	14	9 5.5	500 250		TO220AB
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**12 Arms/T<sub>case</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 72 A<sup>2</sup>s**

BTA / BTB 12-400 → 800	400 → 800	120	2	BW CW	50 35	50 35	50 35	50 35	1.6	17	12 6.5	500 250		TO220AB
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**16 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 128 A<sup>2</sup>s**

BTA / BTB 16-400 → 800	400 → 800	160	2	BW CW	50 35	50 35	50 35	50 35	1.6	22.5	14 8.5	500 250		TO220AB
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**20 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 200 A<sup>2</sup>s**

BTA / BTB 20-400 → 800	400 → 800	200	2	BW CW	50 35	50 35	50 35	75 50	1.7	28	22 11	500 250		TO220AB
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**25 Arms/T<sub>case</sub> = 85°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312.5 A<sup>2</sup>s**

▲ BTA / BTB 24-400 → 800	400 → 800	250	3	BW CW	50 35	50 35	50 35	75 50	1.8	35	22 13	500 250		TO220AB
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**25 Arms/T<sub>case</sub> = 85°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312.5 A<sup>2</sup>s**

BTA 26-400 → 800	400 → 800	250	3	BW CW	50 35	50 35	50 35	75 50	1.8	35	26 13	500 250		TOP 3
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**25 Arms/T<sub>case</sub> = 85°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312.5 A<sup>2</sup>s**

T2516.KS	400 → 800	250	3		35	35	35	35	1.5	35	12	500		RD107
T2514.KS	400 → 800	250	3		50	50	50	50	1.5	35	22	750		RD107

**40 Arms/T<sub>case</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 450 A<sup>2</sup>s**

T4016.KS	400 → 800	300	3		50	50	50	50	1.7	35	22	750		RD107
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Note: BTA insulated (insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated.

▲ New Product.

**TRIACS**



**HCT FAMILY : SNUBBERLESS™ TRIACS**

**NEW ISOWATT220AB Package**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> @ V <sub>DRM</sub> @ T <sub>j</sub> max max (mA)	Suffix	I <sub>GT</sub> (mA) max			I <sub>H</sub> max (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		(di/dt) <sub>c</sub> Without Snubber @ T <sub>j</sub> max min (A/ms)	dv/dt @ 67% V <sub>DRM</sub> @ T <sub>j</sub> max min (V/μs)	Suffix Pack.	Package
					I	II	III		+	-				

**6 Arms/T<sub>case</sub> = 110°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 28 A<sup>2</sup>s**

T620-400 → 700	400 → 700	75	2		20	20	20	35	1.5	8.5	3.3	200	W	ISOWATT
T630-400 → 700	400 → 700	75	2		30	30	30	50	1.5	8.5	3.3	300	w	ISOWATT

**8 Arms/T<sub>case</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 50 A<sup>2</sup>s**

T820-400 → 700	400 → 700	100	2		20	20	20	35	1.5	11	4.5	200	W	ISOWATT
T830-400 → 700	400 → 700	100	2		30	30	30	50	1.5	11	4.5	300	W	ISOWATT

**10 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 78 A<sup>2</sup>s**

T1020-400 → 700	400 → 700	125	2		20	20	20	35	1.5	14	5.3	200	W	ISOWATT
T1030-400 → 700	400 → 700	125	2		30	30	30	50	1.5	14	5.3	300	W	ISOWATT

**12 Arms/T<sub>case</sub> = 85°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 120 A<sup>2</sup>s**

T1220-400 → 700	400 → 700	155	2		20	20	20	35	1.5	17	6.3	200	W	ISOWATT
T1230-400 → 700	400 → 700	155	2		30	30	30	50	1.5	17	6.3	300	W	ISOWATT

**16 Arms/T<sub>case</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 190 A<sup>2</sup>s**

T1620-400 → 700	400 → 700	190	2		20	20	20	35	1.5	22.5	9	200	W	ISOWATT
T1630-400 → 700	400 → 700	190	2		30	30	30	50	1.5	22.5	9	300	W	ISOWATT

**Note: BTA Insulated (Insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated**

(5) D = 400V M = 600V S = 700V N = 800V ex: ZO405ME

HCT FAMILY : SNUBBERLESS™ TRIACS

SENSITIVE GATE TRIACS

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> @ V <sub>DRM</sub>  @ T <sub>j</sub> max max (mA)	Suffix	I <sub>GT</sub> (mA) max				I <sub>H</sub>  max (mA)	I <sub>L</sub>  typ (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		dv/dt @ 67% V <sub>DRM</sub>  @ T <sub>j</sub> max min Typ* (V/μs)	Suffix Pack.	Package
					I	II	III	IV			max	typ			
					++	+-	--	-+			(V)	(A)			

0.8 A<sub>rms</sub>/T<sub>lead</sub> = 70°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 0.32 A<sup>2</sup>s

Z0103 • A Z0107 • A Z0109 • A Z0110 • A	400 → 800 (5)	8	0.2		3 5 10 25	3 5 10 25	3 5 10 25	5 7 10 25	7 10 10 25	7 10 10 25	1.5	1.1	10 20 50 100		TO92
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1 A<sub>rms</sub>/T<sub>a</sub> = 70°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 0.32 A<sup>2</sup>s

Z0103 • N Z0107 • N Z0109 • N Z0110 • N	400 → 800 (5)	8	0.2		3 5 10 25	3 5 10 25	3 5 10 25	5 7 10 25	7 10 10 25	7 10 10 25	1.5	1.1	10 20 50 100		SOT223
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3 A<sub>rms</sub>/T<sub>lead</sub> = 40°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 4.5 A<sup>2</sup>s

TLC226 → 386	400 → 700	30	0.75	T D S A	5 5 10 10	5 5 10 10	5 5 10 10	5 10 10 25	15 15 25 25	15 15 25 25	1.85	4	10 10 20 20		TL
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4 A<sub>rms</sub>/T<sub>C</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 2 A<sup>2</sup>s

Z0402 • E Z0405 • E Z0409 • E	400 → 800 (5)	20	0.2		3 5 10	3 5 10	3 5 10	3 5 10	3 5 10	3 5 10	2	5.5	10 20 100		TO202-1
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4 A<sub>rms</sub>/T<sub>C</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 2 A<sup>2</sup>s

Z0402 • F Z0405 • F Z0409 • F	400 → 800 (5)	20	0.2		3 5 10	3 5 10	3 5 10	3 5 10	3 5 10	3 5 10	2	5.5	10 20 100		TO202-2
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4 A<sub>rms</sub>/T<sub>C</sub> = 90°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 8 A<sup>2</sup>s

BTA/BTB 04-400→700	400 → 700	40	0.75	T D S A	5 5 10 10	5 5 10 10	5 5 10 10	5 10 10 25	15 15 25 25	10 10 20 20	1.65	5.5	10		TO220AB
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Note: BTA Insulated (Insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated

(5) D = 400V M = 600V S = 700V N = 800V ex: Z0405ME

**TRIACS**



**SENSITIVE GATE TRIACS (Cont'd)**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> @ V <sub>DRM</sub> @ T <sub>j</sub> max max (mA)	Suffix	I <sub>GT</sub> (mA) max				I <sub>H</sub> max (mA)	I <sub>L</sub> typ (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		dv/dt @ 67% V <sub>DRM</sub> @ T <sub>j</sub> max min Typ* (V/μs)	Suffix Pack.	Package
					I	II	III	IV			(V)	(A)			

**5 Arms/T<sub>C</sub> = 100°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 8 A<sup>2</sup>s**

T0505 • H T0509 • H	400 → 800 (5)	40	1.5		5 10	5 10	5 10	5 10	5 10	5 10	1.65	7.1	10* 20		TO220AB
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**6 Arms/T<sub>C</sub> = 100°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 18 A<sup>2</sup>s**

T0605 • H T0609 • H	400 → 800 (5)	60	2		5 10	5 10	5 10	5 10	5 10	5 10	1.65	8.5	10* 20		TO220AB
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**6 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 18 A<sup>2</sup>s**

BTA / BTB 06-400 → 700	400 → 700	60	0.75	T D S A	5 10 10	5 10 10	5 10 10	5 10 25	15 15 25	10 10 20	1.65	8.5	10		TO220AB
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**8 Arms/T<sub>case</sub> = 80°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 32 A<sup>2</sup>s**

BTA / BTB 08-400 → 700	400 → 700	80	0.75	S A	10 10	10 10	10 10	10 25	25 25	20 20	1.75	11	10		TO220AB
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**8 Arms/T<sub>C</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 24 A<sup>2</sup>s**

T0805 • H T0809 • H	400 → 800 (5)	70	2		5 10	5 10	5 10	5 10	5 10	5 10	1.65	11	10* 20		TO220AB
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**Note: BTA Insulated (Insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated**

(5) D = 400V M = 600V S = 700V N = 800V ex: T0509MH

**STANDARD TRIACS IN PLASTIC PACKAGE**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> * @ V <sub>DRM</sub> max (mA)	Suffix	I <sub>GT</sub> (mA) max				I <sub>H</sub> max (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		(dv/dt) <sub>c</sub> * min (V/μs)	dv/dt* @ 67% V <sub>DRM</sub> min (V/μs)	Package
					I ++	II +-	III --	IV -+		max (V)	(A)			

**3 Arms/T<sub>lead</sub> = 40°C T<sub>j</sub> = 110°C I<sup>2</sup>t = 4.5 A<sup>2</sup>s**

TLC 116 → 386	200 → 700	30	0.75	B	25	25	25	50	8 typ	1.85	4	5	20	TL
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**4 Arms/T<sub>C</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 2 A<sup>2</sup>s**

Z0410 • E	400 → 800 (5)	20	0.2		25	25	25	25	25	2	5.5	5	200	TO202-1
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**4 Arms/T<sub>C</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 2 A<sup>2</sup>s**

Z0410 • F	400 → 800 (5)	20	0.2		25	25	25	25	25	2	5.5	5	200	TO202-2
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**5 Arms/T<sub>C</sub> = 100°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 8 A<sup>2</sup>s**

T0510 • H T0512 • H	400 → 800 (5)	40	1.5		25 50	25 50	25 50	25 50	25 50	1.65	7.1	2 5	100 200	TO220AB
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**6 Arms/T<sub>C</sub> = 100°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 18 A<sup>2</sup>s**

T0610 • H T0612 • H	400 → 800 (5)	60	2		25 50	25 50	25 50	25 50	25 50	1.65	8.5	2 5	200 500	TO220AB
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**6 Arms/T<sub>case</sub> = 100°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 18 A<sup>2</sup>s**

BTA / BTB 06-400 → 800	400 → 800	60	0.5	B C	50 25	50 25	50 25	100 50	50 25	1.65	8.5	10 5	250 100	TO220AB
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**8 Arms/T<sub>case</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 32 A<sup>2</sup>s**

BTA / BTB 08-400 → 800	400 → 800	80	0.5	B C	50 25	50 25	50 25	100 50	50 25	1.75	11	10 5	250 100	TO220AB
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**8 Arms/T<sub>C</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 24 A<sup>2</sup>s**

T0810 • H T0812 • H	400 → 800 (5)	70	2		25 50	25 50	25 50	25 50	25 50	1.65	11	2 5	200 500	TO220AB
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**10 Arms/T<sub>C</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 50 A<sup>2</sup>s**

T1010 • H T1012 • H T1013 • H	400 → 800 (5)	100	2		25 50 50	25 50 50	25 50 50	25 50 75	25 50 75	1.5	14	2 5 10	200 500 500	TO220AB
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**Note: BTA Insulated (Insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated**

\* @ T<sub>j</sub> max

(5) D = 400V M = 600V S = 700V N = 800V ex: T1013MH

**STANDARD TRIACS IN PLASTIC PACKAGE (cont'd)**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> * @ V <sub>DRM</sub> max (mA)	Suffix	I <sub>GT</sub> (mA) max				I <sub>H</sub> max (mA)	V <sub>TM</sub> @ I <sub>TM</sub> max (V)	@ I <sub>TM</sub> (A)	(dv/dt) <sub>c</sub> * min (V/μs)	dv/dt* @ 67% V <sub>DRM</sub> min (V/μs)	Package
					I ++	II +-	III --	IV -+						

**10 Arms/T<sub>case</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 50 A<sup>2</sup>s**

BTA / BTB 10-400 → 800	400 → 800	100	0.5	B C	50 25	50 25	50 25	100 50	50 25	1.5	14	10 5	250 100	TO220AB
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**12 Arms/T<sub>case</sub> = 95°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 72 A<sup>2</sup>s**

BTA / BTB 12-400 → 800	400 → 800	120	0.5	B C	50 25	50 25	50 25	100 50	50 25	1.5	17	10 5	250 100	TO220AB
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**12 Arms/T<sub>C</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 60 A<sup>2</sup>s**

T1210 • H T1212 • H T1213 • H	400 → 800 (5)	110	2		25 50 50	25 50 50	25 50 50	25 50 75	25 50 75	1.5	17	2 5 10	200 500 500	TO220AB
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**16 Arms/T<sub>C</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 112 A<sup>2</sup>s**

T1612 • H T1613 • H	400 → 800 (5)	150	2.5		50 50	50 50	50 50	50 75	50 75	1.5	22.5	5 10	500 500	TO220AB
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**16 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 128 A<sup>2</sup>s**

BTA / BTB 16-400 → 800	400 → 800	160	2	B	50	50	50	100	50	1.6	22.5	10	250	TO220AB
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**25 Arms/T<sub>C</sub> = 80°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312 A<sup>2</sup>s**

T2512 • H T2513 • H	400 → 800 (5)	250	3		50 50	50 50	50 50	50 75	50 75	1.5	35	5 10	500 500	TO220AB
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**25 Arms/T<sub>case</sub> = 80°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 200 A<sup>2</sup>s**

BTB 24-400 → 800	400 → 800	200	2	B	50	50	50	100	50	1.8	35	10	250	TO220AB
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**25 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312.5 A<sup>2</sup>s**

BTA 26-400 → 800	400 → 800	250	6	B A	50 100	50 100	50 100	100 150	80 100	1.7	35	10	250	TOP 3
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**30 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312.5 A<sup>2</sup>s**

BTB 26-400 → 800	400 → 800	250	6	B	50	50	50	100	80	1.7	35	10	250	TOP 3
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**30 Arms/T<sub>case</sub> = 80°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312.5 A<sup>2</sup>s**

BTA 25-400 → 800	400 → 800	250	6	B A	50 100	50 100	50 100	100 150	80 100	1.8	42	10	250	RD 91
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**Note: BTA Insulated (Insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated**

\* @ T<sub>j</sub> max

(5) D = 400V M = 600V S = 700V N = 800V ex: T1013MH

**STANDARD TRIACS IN PLASTIC PACKAGE (cont'd)**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> * @ V <sub>DRM</sub> max (mA)	Suffix	I <sub>GT</sub> (mA) max				I <sub>H</sub> max (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		(dv/dt) <sub>c</sub> * min (V/μs)	dv/dt* @ 67% V <sub>DRM</sub> min (V/μs)	Package
					I	II	III	IV		max (V)	(A)			

**25 Arms/T<sub>C</sub> = 85°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 312 A<sup>2</sup>s**

T2512 • KS T2513 • KS	400 → 800 (5)	250	3		50 50	50 50	50 50	50 75	50 75	1.5	35	5 10	500 500	RD107
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**40 Arms/T<sub>C</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 450 A<sup>2</sup>s**

T4012 • KS T4013 • KS	400 → 800 (5)	300	3		50 50	50 50	50 50	50 75	50 75	1.7	56	5 10	500 500	RD107
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**40 Arms/T<sub>case</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 450 A<sup>2</sup>s**

BTA 40-400 → 800	400 → 800	300	6	B A	50 100	50 100	50 100	100 150	80 100	1.8	60	10	250	RD 91
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**40 Arms/T<sub>case</sub> = 75°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 450 A<sup>2</sup>s**

BTA 41-400 → 800	400 → 800	300	6	B A	50 100	50 100	50 100	100 150	80 100	1.8	60	10	250	TOP 3
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**45 Arms/T<sub>case</sub> = 85°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 450 A<sup>2</sup>s**

BTB 41-400 → 800	400 → 800	300	6	B	50	50	50	100	80	1.8	60	10	250	TOP 3
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**Note: BTA insulated (insulating voltage = 2500 V<sub>RMS</sub>) BTB uninsulated.**

\* @ T<sub>j</sub> max.

(5) D = 400V M = 600V S = 700V N = 800V ex: T2512MKS

**SPECIAL TRIACS FOR LIGHT DIMMERS**

Type (See Note)	V <sub>DRM</sub> ± (V)	I <sub>TSM</sub> (A)	I <sub>DRM</sub> * @ V <sub>DRM</sub> max (mA)	Suffix	I <sub>GT</sub> (mA) max				I <sub>H</sub> max (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		(dv/dt) <sub>c</sub> * typ (V/μs)	dv/dt* @ 67% V <sub>DRM</sub> min (V/μs)	Package
					I	II	III	IV		max (V)	(A)			

**6 Arms/T<sub>case</sub> = 105°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 50 A<sup>2</sup>s**

BTA 06-400 → 600	400 → 600	100	0.5	GP	50	50	50	75	13	1.4	8.5	10	30	TO220AB
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**10 Arms/T<sub>case</sub> = 90°C T<sub>j</sub> = 125°C I<sup>2</sup>t = 72 A<sup>2</sup>s**

BTA 10-400 → 600	400 → 600	120	0.5	GP	50	50	50	75	13	1.5	14	10	30	TO220AB
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**Note: BTA insulated (insulating voltage = 2500 V<sub>RMS</sub>).**

\* @ T<sub>j</sub> max.