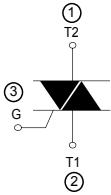
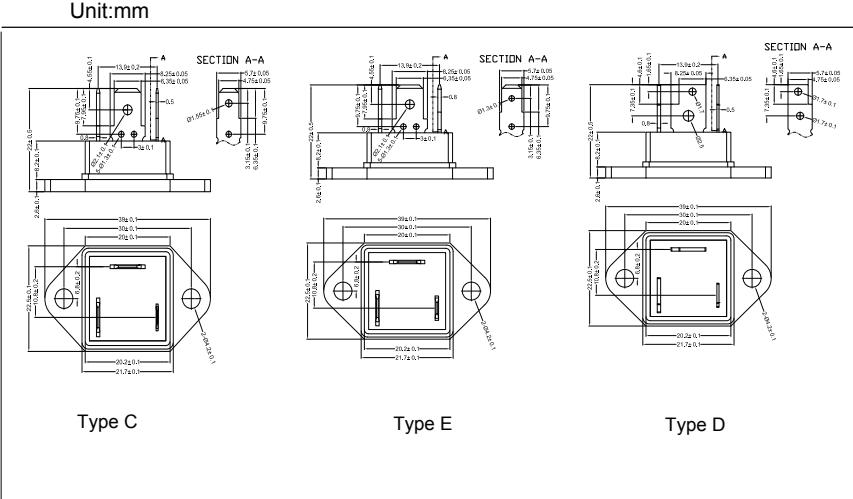


# SBTA41G04B thru SBTA41G16B

## Discrete Triacs (Isolated)

T1	 <table border="1"> <thead> <tr> <th></th><th>VDRM/RRM</th><th>VDSM/RSM</th></tr> <tr> <th></th><th>V</th><th>V</th></tr> </thead> <tbody> <tr> <td>SBTA41G04B</td><td>400</td><td>500</td></tr> <tr> <td>SBTA41G06B</td><td>600</td><td>700</td></tr> <tr> <td>SBTA41G08B</td><td>800</td><td>900</td></tr> <tr> <td>SBTA41G10B</td><td>1000</td><td>1100</td></tr> <tr> <td>SBTA41G12B</td><td>1200</td><td>1300</td></tr> <tr> <td>SBTA41G16B</td><td>1600</td><td>1700</td></tr> </tbody> </table>		VDRM/RRM	VDSM/RSM		V	V	SBTA41G04B	400	500	SBTA41G06B	600	700	SBTA41G08B	800	900	SBTA41G10B	1000	1100	SBTA41G12B	1200	1300	SBTA41G16B	1600	1700	 <p>Unit:mm</p> <p>SECTION A-A</p> <p>SECTION A-A</p> <p>SECTION A-A</p> <p>Type C      Type E      Type D</p>
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SBTA41G10B	1000	1100																								
SBTA41G12B	1200	1300																								
SBTA41G16B	1600	1700																								

Symbol	Test Conditions	Maximum Ratings	Unit
$I_{TRMS}$	$T_{VJ}=80^{\circ}\text{C}$	40	A
$I_{TSM}$	$T_{VJ}=45^{\circ}\text{C}$ $V_R=0$ $t=10\text{ms (50Hz), sine}$ $t=8.3\text{ms (60Hz), sine}$	420	A
	$T_{VJ}=T_{VJM}$ $V_R=0$ $t=10\text{ms(50Hz), sine}$ $t=8.3\text{ms(60Hz), sine}$	400	
$i^2t$	$T_{VJ}=45^{\circ}\text{C}$ $V_R=0$ $t=10\text{ms (50Hz), sine}$ $t=8.3\text{ms (60Hz), sine}$	880	$\text{A}^2\text{s}$
	$T_{VJ}=T_{VJM}$ $V_R=0$ $t=10\text{ms(50Hz), sine}$ $t=8.3\text{ms(60Hz), sine}$	850	
$(di/dt)_{cr}$	$T_{VJ}=T_{VJM}$ $f=50\text{Hz}, t_p=200\mu\text{s}$ $V_D=2/3V_{DRM}$ $I_G=0.3\text{A}$ $dI/dt=0.3\text{A}/\mu\text{s}$	760	$\text{A}/\mu\text{s}$
	repetitive, $I_T=40\text{A}$ non repetitive, $I_T=I_{TAVM}$	720	
$(dv/dt)_{cr}$	$T_{VJ}=T_{VJM};$ $R_{GK}=\infty$ ; method 1 (linear voltage rise)	50	$\text{V}/\mu\text{s}$
	$V_{DR}=2/3V_{DRM}$	300	
$P_{GM}$	$T_{VJ}=T_{VJM}$ $I_T=I_{TAVM}$ $t_p=30\mu\text{s}$ $t_p=300\mu\text{s}$	10 5	W
$P_{GA\ V}$		1	W
$V_{RGM}$		10	V
$T_{VJ}$ $T_{VJM}$ $T_{stg}$		-40...+125 125 -40...+125	°C
$V_{ISOL}$	50/60Hz, RMS $t=1\text{minute}$ ,    leads-to-tab	2500	V~
$M_d$	Mounting torque (M4)	0.8...1.5	Nm
Weight		25	g

# SBTA41G04B thru SBTA41G16B

## Discrete Triacs(Isolated)

Symbol	Test Conditions	Characteristic Values	Unit
$I_R, I_D$	$T_{VJ}=T_{VJM}$ ; $V_D=V_{DRM}$	10	mA
$V_{TM}$	$I_T=60A$ ; $T_{VJ}=25^\circ C$	1.44	V
$V_{TO}$	For power-loss calculations only ( $T_{VJ}=125^\circ C$ )	0.85	V
$R_T$		10	$\Omega$
$V_{GT}$	I II III IV  $V_D=6V$ ; $I_T=1A$ ; $T_{VJ}=25^\circ C$	1.3 1.3 1.3 1.5	V
$I_{GT}$	I II III IV  $V_D=6V$ ; $I_T=1A$ ; $T_{VJ}=25^\circ C$	50 50 50 100	mA
$V_{GD}$	$T_{VJ}=T_{VJM}$ ; $V_D=2/3V_{DRM}$	0.2	V
$I_{GD}$		10	mA
$I_H$	$T_{VJ}=25^\circ C$ ; $V_D=6V$ ; $R_{GK}=\infty$	100	mA
$R_{thJC}$	DC current	1.3	K/W
$R_{thJH}$	DC current	1.5	K/W
$a$	Max. acceleration, 50 Hz	50	$m/s^2$

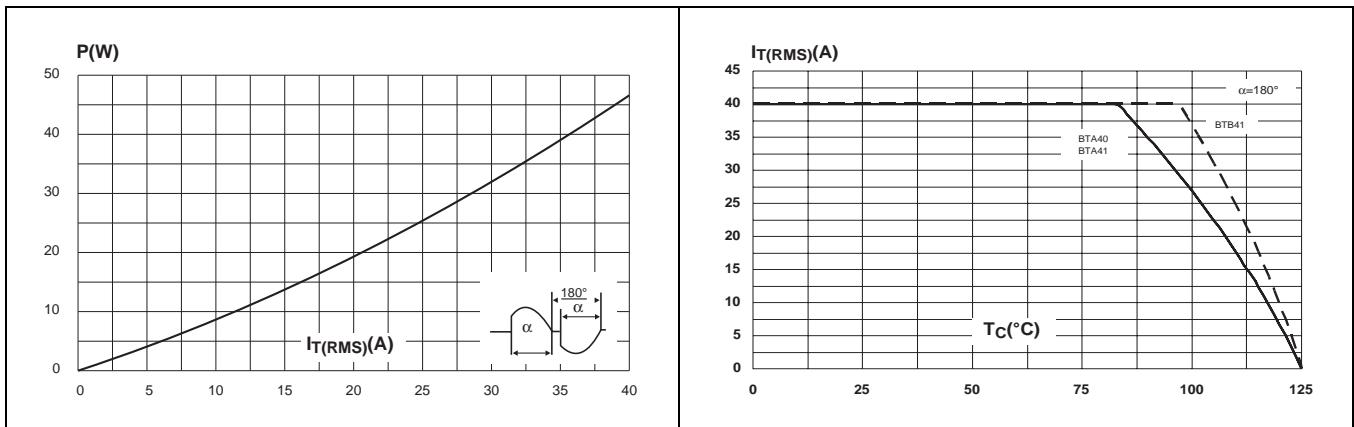
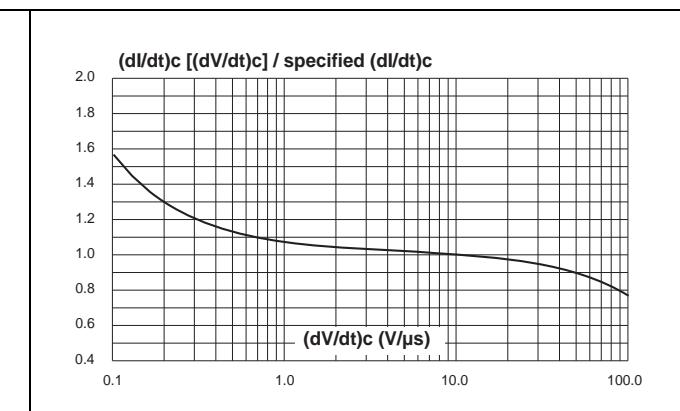
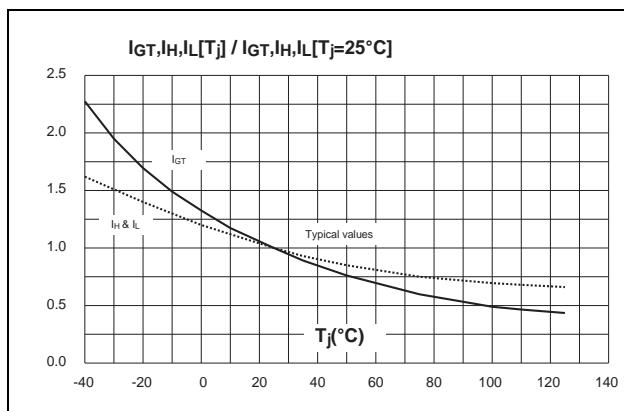
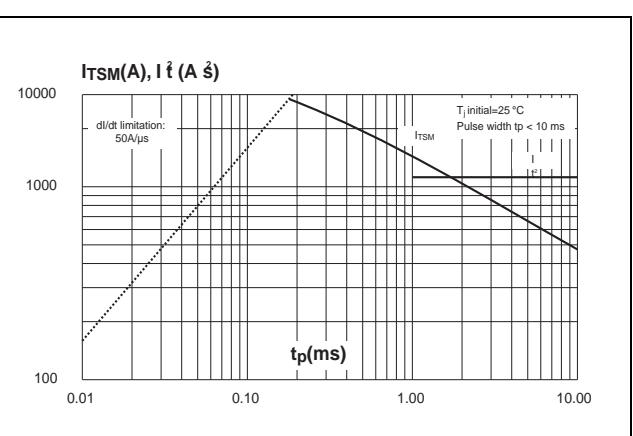
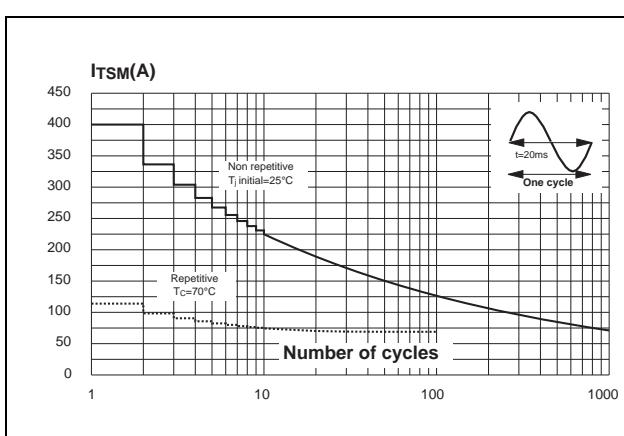
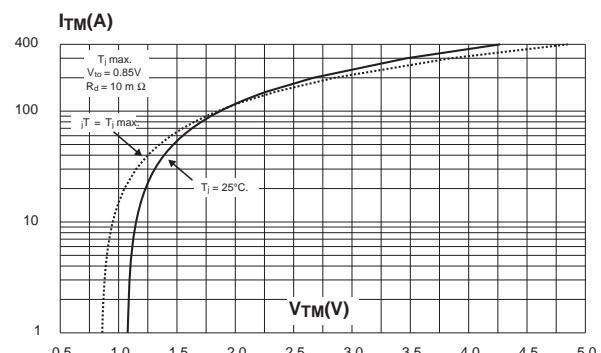
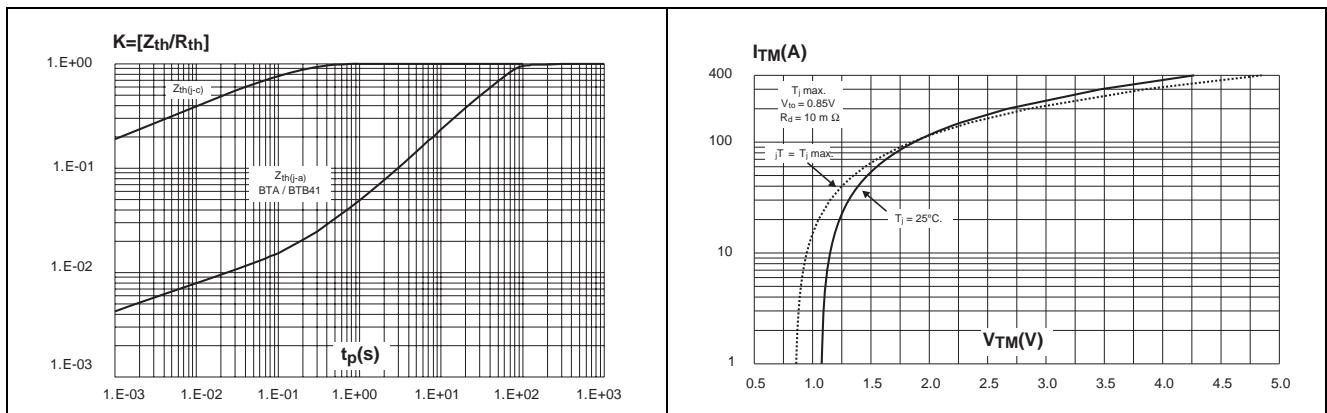


Figure 1. Maximum power dissipation versus on-state rms current (full cycle)

Figure 2. On-state rms current versus case temperature (full cycle)

# SBTA41G04B thru SBTA41G16B

## Discrete Triacs(Isolated)



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