

Specifications

PARAMETER	Units	Specification Limits			
Model No. GTH		10A	15A	25A	40A
INPUT PARAMETER ①	D1				
Control Voltage Range	Vdc	4 to 16	4 to 16	4 to 16	4 to 16
Input Current(Max.) @=5V/12V	mAdc	26/86	26/86	26/86	26/86
Must Turn On Voltage	Vdc	4	4	4	4
Must Turn Off Voltage	Vdc	1	1	1	1
Reverse Voltage (Max.)	Vdc	32	32	32	32
Display LED		yes	yes	yes	yes

INPUT PARAMETER ②	D3				
Control Voltage Range	Vdc	3 to 32	3 to 32	3 to 32	3 to 32
Input Current (Max.) @=5V/12V	mAdc	33/56	26/56	33/56	33/56
Must Turn On Voltage	Vdc	3	3	3	3
Must Turn Off Voltage	Vdc	1	1	1	1
Reverse Voltage (Max.)	Vdc	32	32	32	32
Display LED		yes	yes	yes	yes

INPUT PARAMETER ③	A2				
Control Voltage Range	Vdc	90 to 250	90 to 250	90 to 250	90 to 250
Input Current (Max.) @=220r	mAdc	13	13	13	13
Must Turn On Voltage	Vdc	90	90	90	90
Must Turn Off Voltage	Vdc	10	10	10	10
Display LED		yes	yes	yes	yes

OUTPUT SPECIFICATIONS ④					
Load Current Range	Arms	3x10	3x15	3x25	3x40
Surge Current, 20 mSec (Max.)	Arms	200	250	300	400
Load Voltage Range (480V)	Vrms	44 to 480	44 to 480	44 to 480	44 to 480
SCR Over voltage (480V)	Vpk	≥1200	≥1200	≥1200	≥1200
Load Voltage Range (530V)	Vrms	53 to 530	53 to 530	53 to 530	53 to 530
SCR Over voltage (530V)	Vpk	≥1400	≥1400	≥1400	≥1400
Frequency Range	Hz	47 to 63	47 to 63	47 to 63	47 to 63
Off-State dv/dt (Min)	V/μsec	500	500	500	500
Max.Off-State Leakage Current	mArms	≤8	≤8	≤8	≤8
On State Voltage Drop (Max.)	Vrms	1.6	1.6	1.6	1.6
Thermal Resistance, (Rthjc)	°C/W	0.75	0.65	0.55	0.46
Turn On Time (Max.) "Z"	Cycle	1/2	1/2	1/2	1/2
Turn Off Time (Max.)	Cycle	1/2	1/2	1/2	1/2
Turn On Time (Max.) "R"	mSec	1	1	1	1
Turn Off Time (Max.) "A2"	mSec	40	40	40	40

Model No. GTH		60A	80A	100A	120A
INPUT SPECIFICATIONS ①	D1				
Control Voltage Range	Vdc	4 to 16	4 to 16	4 to 16	4 to 16
Input Current(Max.) @=5V/12V	mAdc	26/86	26/86	26/86	26/86
Must Turn On Voltage	Vdc	4	4	4	4
Must Turn Off Voltage	Vdc	1	1	1	1
Reverse Voltage (Max.)	Vdc	32	32	32	32
Display LED		yes	yes	yes	yes

INPUT SPECIFICATIONS ②		D3			
Control Voltage Range	Vdc	3 to 32	3 to 32	3 to 32	3 to 32
Input Current (Max.) @=5V/12V	mAdc	33/56	33/56	33/56	33/56
Must Turn On Voltage	Vdc	3	3	3	3
Must Turn Off Voltage	Vdc	1	1	1	1
Reverse Voltage (Max.)	Vdc	32	32	32	32
Display LED		yes	yes	yes	yes

INPUT SPECIFICATIONS ③		A2			
Control Voltage Range	Vac	90 to 250	90 to 250	90 to 250	90 to 250
Input Current (Max.) @=220V	mAdc	13	13	13	13
Must Turn On Voltage	Vdc	90	90	90	90
Must Turn Off Voltage	Vdc	10	10	10	10
Display LED		yes	yes	yes	yes

OUTPUT SPECIFICATIONS ④					
Load Current Range	Vrms	3x60	3x80	3x100	3x120
Surge Current, 20 mSec (Max.)	Vrms	600	1000	1200	1500
Load Voltage Range (480V)	Vrms	44 to 480	44 to 480	44 to 480	44 to 480
SCR Over voltage (480V)	Vpk	≥1200	≥1200	≥1200	≥1200
Load Voltage Range (530V)	Vrms	53 to 530	53 to 530	53 to 530	53 to 530
SCR Over voltage (530V)	Vpk	≥1400	≥1400	≥1400	≥1400
Frequency Range	Hz	47 to 63	47 to 63	47 to 63	47 to 63
Off State dv/dt (Min)	V/μsec	500	500	500	500
Max.Off-StateLeakage Current	mArms	≤8	≤8	≤8	≤8
On State Voltage Drop (Max.)	Vrms	1.8	1.8	1.8	1.8
Thermal Resistance, (Rthjc)	°C/W	0.38	0.34	0.23	0.23
Turn On Time (Max.) "Z"	Cycle	1/2	1/2	1/2	1/2
Turn Off Time (Max.)	Cycle	1/2	1/2	1/2	1/2
Turn On Time (Max.) "R"	mSec	1	1	1	1
Turn Off Time (Max.) "A2"	mSec	40	40	40	40

COUPLING PARAMETER					
Dielectric (Input/Output)	Vrms	2500	2500	2500	2500
Dielectric (Input-Output/Base)	Vrms	2500	2500	2500	2500
Capacitance	pf	10	10	10	10

GENERAL SPECIFICATIONS					
Ambient temperature range: operating or Storage -30°C to +80°C					
Weight: (typical) 430g					
Base plate: Copper, nickel-plated					
Case Color: Black					
Mounting Dimensions: LxWxH 105x74x32.5 mm					