



## THYRISTOR, DIODE-THYRISTOR, OPTO-THYRISTOR, TRIAC MODULES

M	1	T	1		- 630 - 28				M1T1-630-28
M		TT		A	- 160 - 32				MTTA-160-16-62
M	4	DT			- 160 - 14 - 7	4			M4DT-160-14-74
M	1	TFI	2		- 500 - 20 - 7	3	2		M1TFI2-500-20-732
M	2	TOTO			- 80 - 12 - 3	3			M2TOTO-80-12-33
M	1	TS			- 400 - 12 - 6				M1TS-400-12-6

<b>M</b>									Module
<b>No sign</b>		<b>TT</b>							Two phase control thyristors
		<b>TD</b>							Phase control thyristor and diode
		<b>DT</b>							Diode and phase control thyristor
		<b>TFTF</b>							Two fast thyristors
		<b>TFDF</b>							Fast thyristor and fast diode
		<b>DFTF</b>							Fast diode and fast thyristor
		<b>TFIDF</b>							Fast switching thyristor and diode
		<b>DFTFI</b>							Diode and fast switching thyristor
<b>1</b>		<b>T</b>							Single phase control thyristor
		<b>TF</b>							Single fast thyristor
		<b>TFI</b>							Single fast switching thyristor
		<b>TS</b>							Single triac
<b>2</b>		<b>T</b>							Two phase control thyristors
		<b>TF</b>							Two fast thyristors
		<b>TFI</b>							Two fast switching thyristors
		<b>TOTO</b>							Two optothyristors
<b>4</b>		<b>T</b>							Four phase control thyristors
		<b>TD</b>							Two phase control thyristors and two diodes
		<b>DT</b>							Two diodes and two phase control thyristors
<b>6</b>		<b>T</b>							Six phase control thyristors
		<b>TD</b>							Three phase control thyristors and three diodes
		<b>DT</b>							Three diodes and three phase control thyristors
		<b>1,2,...</b>						Modification number	
		<b>No sign</b>						Half-bridge	
		<b>A</b>						Common anode circuit	
		<b>C</b>						Common cathode circuit	
			<b>50</b>					Maximal permissible mean on-state current value, A	
				<b>12</b>				Repetitive pulse voltage class, V/100	
					<b>7</b>			Critical rate of rise of off-state voltage, group	
						<b>3</b>		Turn-off time, group	
							<b>2</b>	Turn-on time, group (for fast modules)	



## DIODES

D						X			
D – diode									
Letter designations for diode arts:									
A – avalanche diode									
F – fast recovery diode									
Design modification number									
Hexagon size designation for stud design diodes or case diameter designation for press pack diodes									
Case design designation									
Maximal permissible mean on-state current value, A									
X – reverse polarity sign									
Repetitive voltage class									
t <sub>rr</sub> group (for DF)									

## DESIGNATION KEY OF HEAT SINKS FOR STUD DESIGN AND PRESS-PACK DEVICES

### a) Air cooling

O	3	7	1	-80	-B	2	
							Air cooling heat sink
							Modification index number
							Designation of modification:
							-for stud design – thread diameter
							-for press-pack design – contact surface diameter
							Heat sink design index number for devices:
							1 – stud design
							2 – press-pack design, one side cooling
							3 – press-pack design, double side cooling
							Heat sink length
							Climatic conditions
							Placing category

### б) Water cooling

OM		101					
							Water cooling copper heat sink
							Design designation

## DESIGNATION KEY OF HEAT SINKS FOR POWER MODULES

O	4	6	УХЛ	4		
						O – air cooling
						OB – water cooling
						Design designation
						Modification
						Climatic conditions
						Placing category