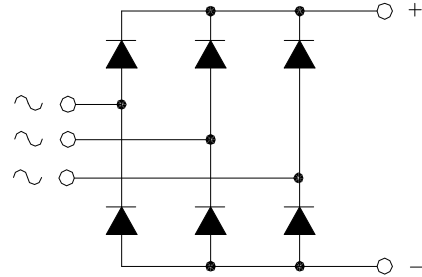


## MTS150

### POWER RECTIFIER BRIDGE

Output Current **150 A**



$V_{RRM}$	$V_{RSM}$	P/N
400	500	MTS150.04
600	700	MTS150.06
800	900	MTS150.08
1200	1300	MTS150.12
1600	1700	MTS150.16

#### Features

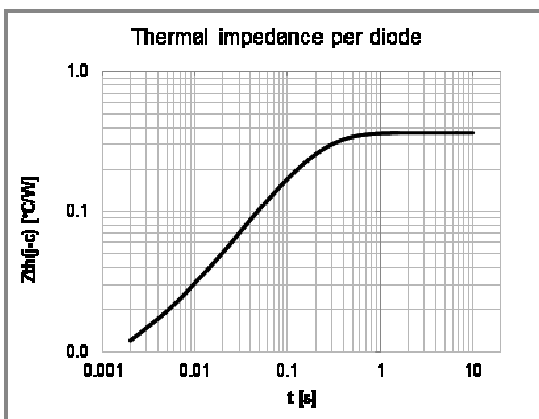
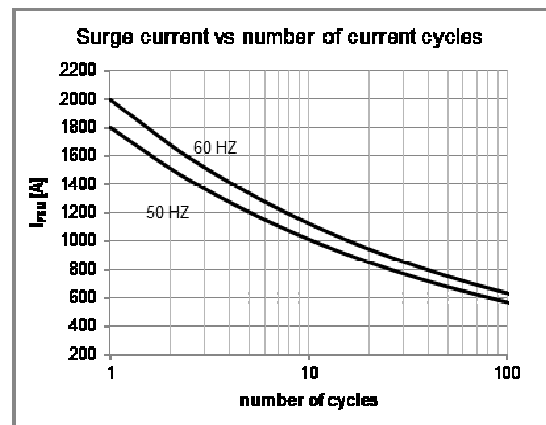
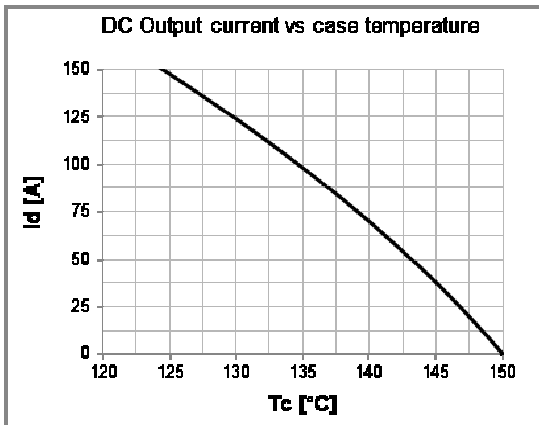
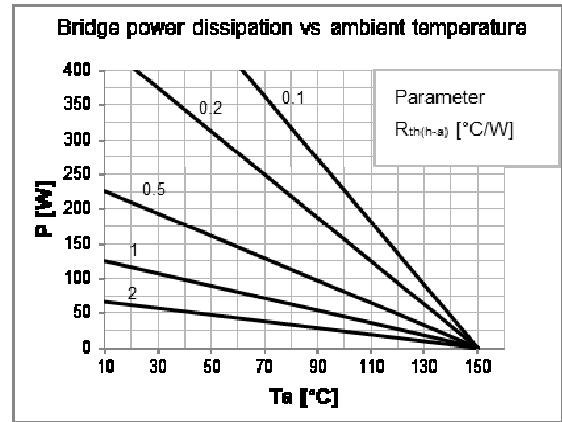
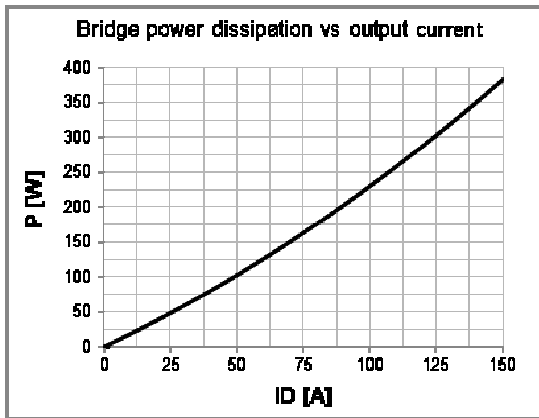
- Low forward voltage diodes for high surge capability
- Low thermal impedance packaging
- Electrically insulated case

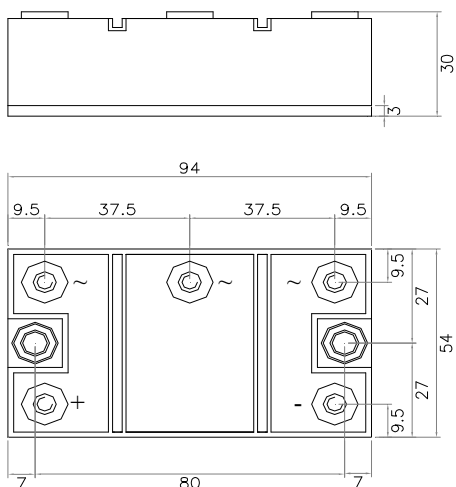
#### Applications

- Input rectifier for variable frequency drives
- Battery charger rectifiers
- Three phase rectifier for power supplies
- Rectifiers for DC motor fields supplies

Diodes characteristics		Conditions	$T_j$ [°C]	Value
$I_{RRM}$	Max repetitive peak reverse current	$V = V_{RRM}$	150	5 mA
$V_{F(TO)}$	Threshold voltage		150	0,9 V
$r_F$	Forward slope resistance		150	2,5 mΩ
$V_{FM}$	Peak forward voltage, max	$I_F = 150A$	25	1,3 V
$I_{FSM}$	Surge forward current	Half sine wave, 10 ms	150	1800 A
$I^2t$	Max $I^2t$ for fusing		150	16200 A <sup>2</sup> s
$T_{jmax}$	Operating junction temperature			-40 / 150 °C
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation		0,36 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rectangular wave 120° conduction		0,40 °C/W

Module characteristics		Conditions	Value
$I_D$	DC output current	$T_c = 124$ °C	150 A
$I_D$	DC output current	$T_a = 40$ °C ; freely suspended	12 A
$V_{INS}$	RMS Insulating voltage	50 / 60 Hz $t = 1$ s ( $i < 1$ mA)	3600 V
$V_{INS}$	RMS Insulating voltage	50 / 60 Hz $t = 60$ s ( $i < 1$ mA)	3000 V
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation	0,060 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rect. wave 120° conduction	0,067 °C/W
$R_{th(c-h)}$	Thermal resistance (case to heatsink)	Mounting surface flat, smooth and greased	0,054 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Freely suspended or mounted on an insulator	8,5 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Mounted on a painted metal sheet 250x250x1 mm	3,0 °C/W
$T_{stg}$	Max storage temperature		150 °C
$M_1$	Mounting torque, ± 15 %		4,5 N·m
			40 lb·inch
$M_2$	Terminal connection torque, ± 15 %		3,0 N·m
			26 lb·inch




**Fig.1**

MTS150.04-SS6-FIX5-HP-P80-TB

Code:970001500002

MTS150.06-SS6-FIX5-HP-P80-TB

Code:970001500005

MTS150.08-SS6-FIX5-HP-P80-TB

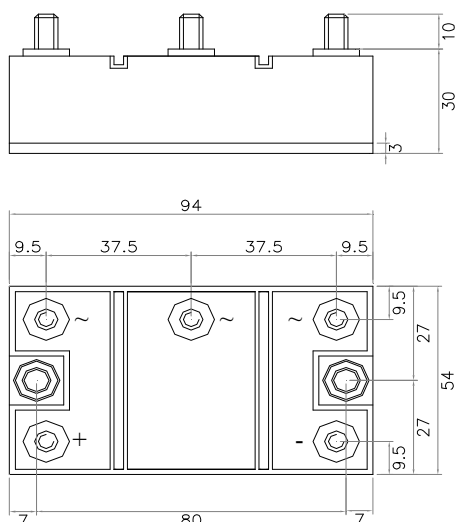
Code:970001500008

MTS150.12-SS6-FIX5-HP-P80-TB

Code:970001500011

MTS150.16-SS6-FIX5-HP-P80-TB

Code:970001500014


**Fig.2**

MTS150.04-MM6x10-FIX5-HP-P80-TB

Code:970001500000

MTS150.06-MM6x10-FIX5-HP-P80-TB

Code:970001500003

MTS150.08-MM6x10-FIX5-HP-P80-TB

Code:970001500006

MTS150.12-MM6x10-FIX5-HP-P80-TB

Code:970001500009

MTS150.16-MM6x10-FIX5-HP-P80-TB

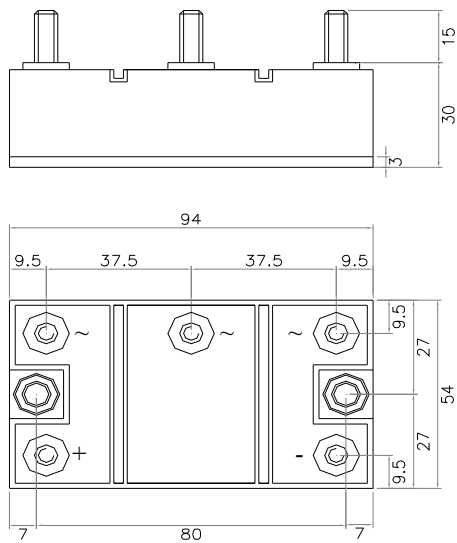
Code:970001500012

**Voltage:04=400V 06=600V 08=800V 12=1200V 16=1600V**
**Power fix:**

 SS=Screw (M6)  
 MM=Bolt (M6)

**Mounting fix:**

FIX= Ø5,5


**Fig.3**

MTS150.04-MM6x15-FIX5-HP-P80-TB

Code:970001500001

MTS150.06-MM6x15-FIX5-HP-P80-TB

Code:970001500004

MTS150.08-MM6x15-FIX5-HP-P80-TB

Code:970001500007

MTS150.12-MM6x15-FIX5-HP-P80-TB

Code:970001500010

MTS150.16-MM6x15-FIX5-HP-P80-TB

Code:970001500013

**Voltage:04=400V 06=600V 08=800V 12=1200V 16=1600V**

**Power fix:**

MM=Bolt (M6)

**Mounting fix:**

FIX= Ø5,5