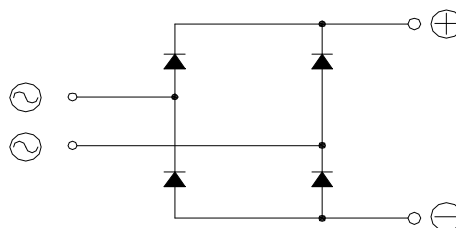




BM60

POWER RECTIFIER BRIDGE

Output Current **60 A**



V_{RRM}	V_{RSM}	P/N
400	500	BM60.04
600	700	BM60.06
800	900	BM60.08
1200	1300	BM60.12
1600	1700	BM60.16

Features

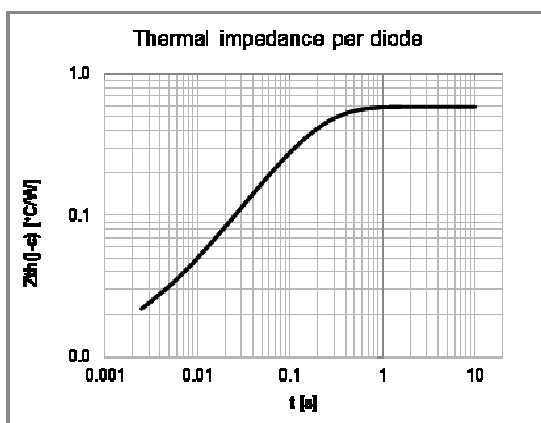
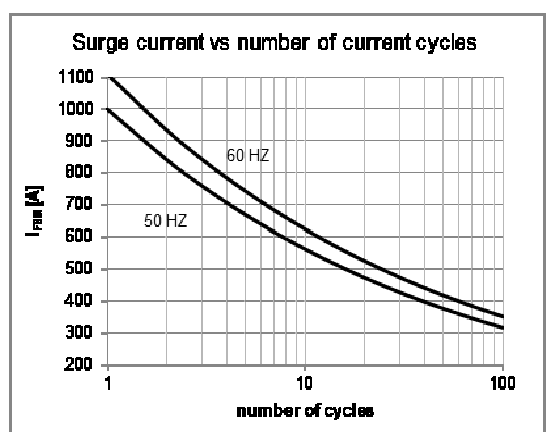
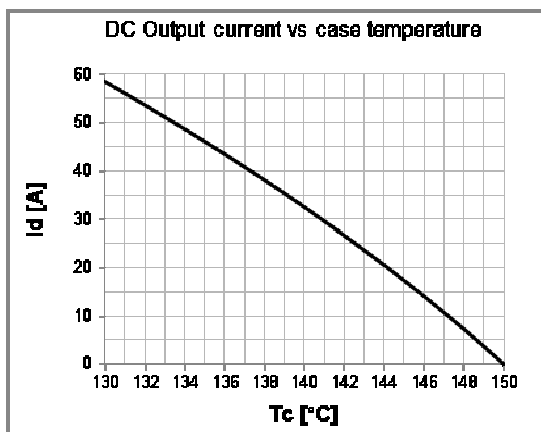
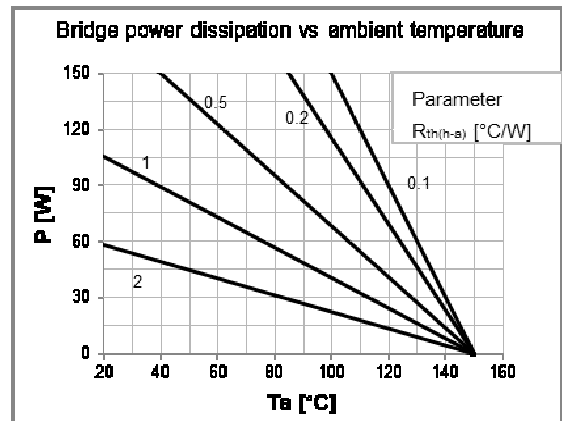
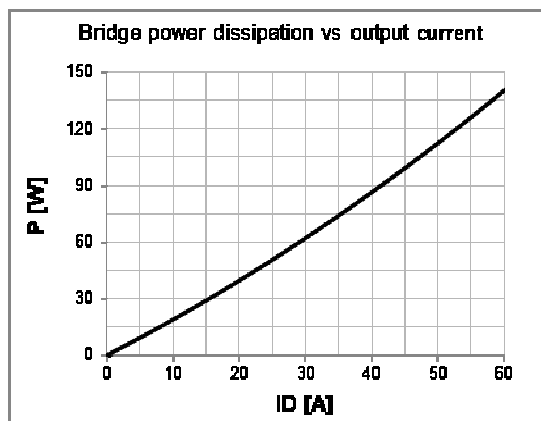
Low forward voltage diodes for high surge capability
Low thermal impedance packaging
Electrically insulated case

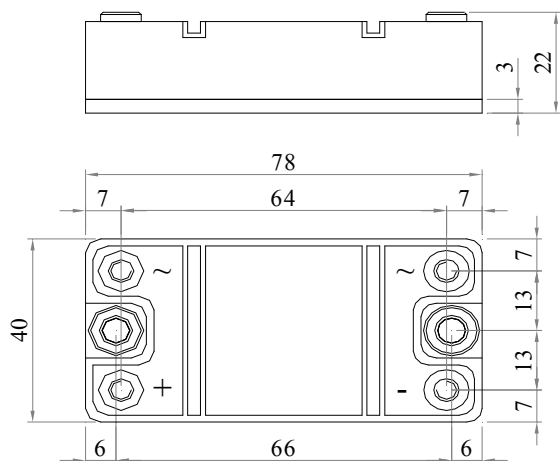
Applications

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	4 mA
$V_{F(TO)}$	Threshold voltage		150	0,9 V
r_F	Forward slope resistance		150	3,6 mΩ
V_{FM}	Peak forward voltage, max	$I_F = 100A$	25	1,3 V
I_{FSM}	Surge forward current	Half sine wave, 10 ms	150	1000 A
I^2t	Max I^2t for fusing		150	5000 A ² s
T_{jmax}	Operating junction temperature			-40 / 150 °C
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation		0,53 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rectangular wave 180° conduction		0,59 °C/W

Module characteristics		Conditions	Value
I_D	DC output current	$T_c = 129$ °C	60 A
I_D	DC output current	$T_a = 40$ °C ; freely suspended	7 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	0,133 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rect. wave 180° conduction	0,147 °C/W
$R_{th(c-h)}$	Thermal resistance (case to heatsink)	Mounting surface flat, smooth and greased	0,088 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Freely suspended or mounted on an insulator	9,0 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Mounted on a painted metal sheet 250x250x1 mm	3,8 °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
BM60.04-SS5-FIX5-HP-P66-TB

Code:BM600006000001

BM60.06-SS5-FIX5-HP-P66-TB

Code:BM600006000003

BM60.08-SS5-FIX5-HP-P66-TB

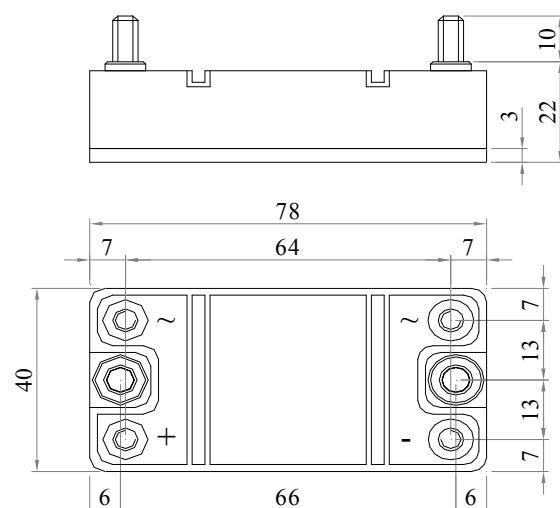
Code:BM600006000005

BM60.12-SS5-FIX5-HP-P66-TB

Code:BM600006000007

BM60.16-SS5-FIX5-HP-P66-TB

Code:BM600006000009


Fig.2
BM60.04-MM5x10-FIX5-HP-P66-TB

Code:BM600006000000

BM60.06-MM5x10-FIX5-HP-P66-TB

Code:BM600006000002

BM60.08-MM5x10-FIX5-HP-P66-TB

Code:BM600006000004

BM60.12-MM5x10-FIX5-HP-P66-TB

Code:BM600006000006

BM60.16-MM5x10-FIX5-HP-P66-TB

Code:BM600006000008

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

SS=Screw (M5)

MM=Bolt (M5)

Mounting fix:

FIX= Ø5,5