



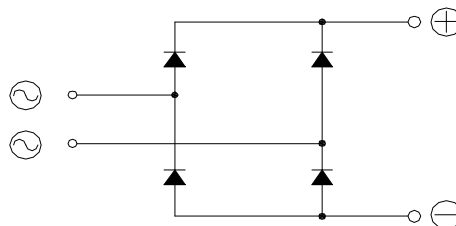
RADDITAL

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BM55

POWER RECTIFIER BRIDGE

Output Current **55 A**



V_{RRM}	V_{RSM}	P/N
400	500	BM55.04
600	700	BM55.06
800	900	BM55.08
1200	1300	BM55.12
1600	1700	BM55.16

Features

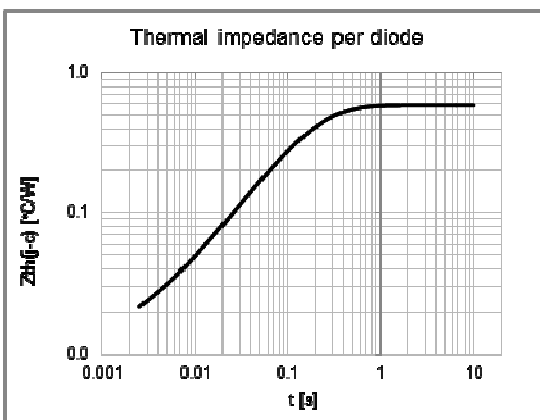
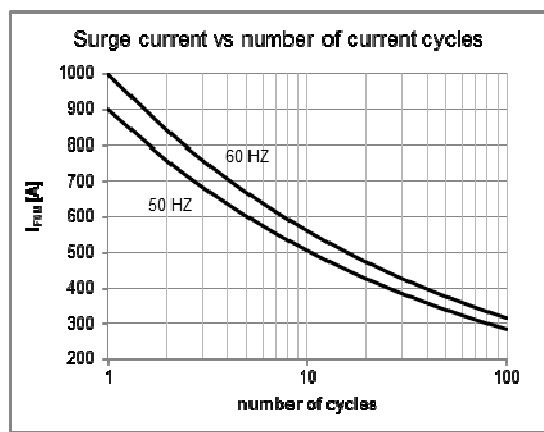
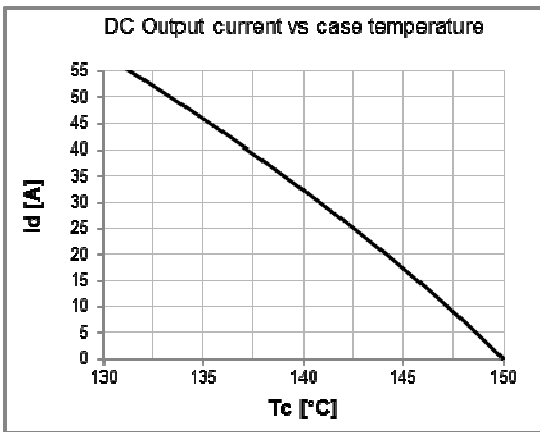
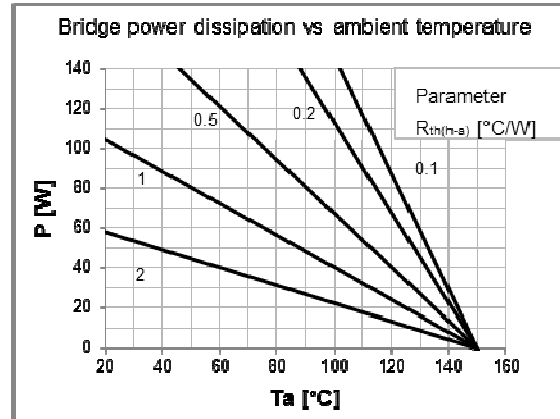
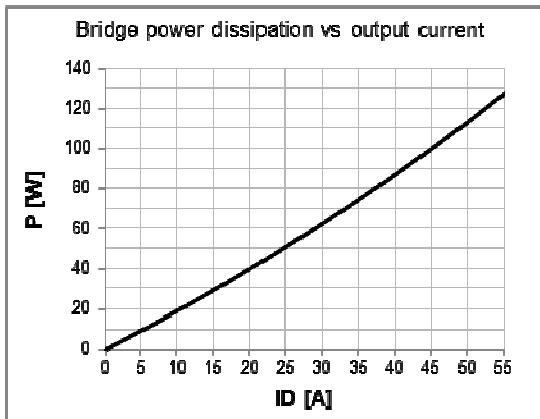
Low forward voltage diodes for high surge capability
Low thermal impedance packaging
Electrically insulated case

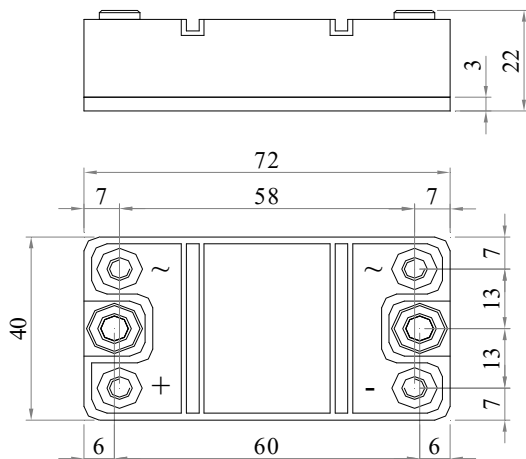
Applications

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	3,7 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	900 A
I^2t	Max I^2t for fusing		150	4050 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	$T_c = 130$ °C	55 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	0,096 °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****BM55.04-SS5-FIX5-HP-P60-TB**

Code:BM600005500001

BM55.06-SS5-FIX5-HP-P60-TB

Code:BM600005500003

BM55.08-SS5-FIX5-HP-P60-TB

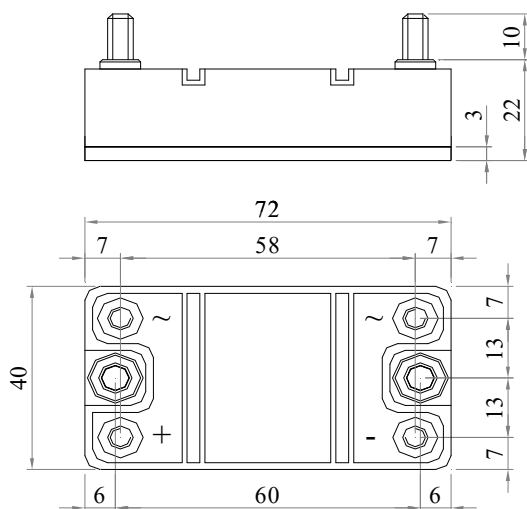
Code:BM600005500005

BM55.12-SS5-FIX5-HP-P60-TB

Code:BM600005500007

BM55.16-SS5-FIX5-HP-P60-TB

Code:BM600005500009

**Fig.2****BM55.04-MM5x10-FIX5-HP-P60-TB**

Code:BM600005500000

BM55.06-MM5x10-FIX5-HP-P60-TB

Code:BM600005500002

BM55.08-MM5x10-FIX5-HP-P60-TB

Code:BM600005500004

BM55.12-MM5x10-FIX5-HP-P60-TB

Code:BM600005500006

BM55.16-MM5x10-FIX5-HP-P60-TB

Code:BM600005500008

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

SS=Screw (M5)

MM=Bolt (M5)

Mounting fix:

FIX= Ø5,5