

# BRIDGE RECTIFIERS MD8BU60



## FEATURES

- ☞ **Reverse voltage up to 1600V**
- ☞ **Heat transfer and isolation through DBC**
- ☞ **Large, isolated copper base plate**
- ☞ **Easy chassis mounting**

## TYPICAL APPLICATIONS

- ☞ **Single phase rectifiers for power supplies**
- ☞ **Input rectifiers for variable frequency drivers**
- ☞ **Rectifiers for DC motor**
- ☞ **Battery chargers**

**BRIDGE  
RECTIFIERS**

**MD8BU60**



TECHNICAL DATA

**DEVICE TYPE**

$V_{RRM}$   
(V)

$V_{RSM}$   
(V)

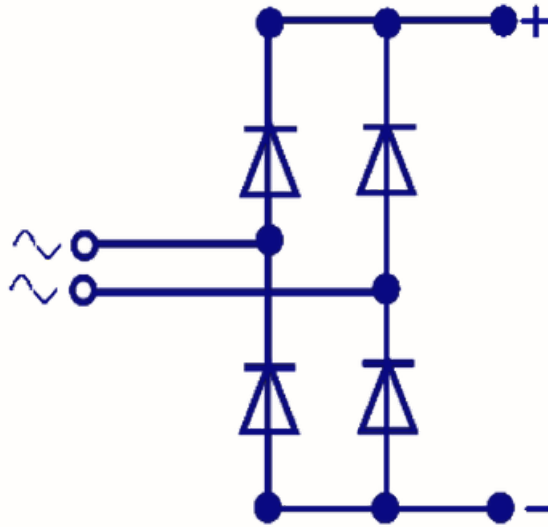
MD8BU60/04	400	500
MD8BU60/12	1200	1300
MD8BU60/16	1600	1700

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current $T_c = 85^\circ\text{C}$	67A
$V_{FM}$	Maximum peak forward Voltage drop @ 150 AP	1.60V
$I_{FSM}$	Maximum peak one cycle (non-rep.) surge current 10 msec	1000 A
$I^2t$	Max. $I^2t$ rating (non-rep.) for 10 msec	5000A <sup>2</sup> Sec
$I_{RRM}$	Peak reverse current at $T_{vj} = 125^\circ\text{C}$	10 mA
$V_0$ $R_0$	$T_{vj}=\text{max}$	0.85 V 5 m $\Omega$
$R_{th(j-c)}$ $R_{th(j-c)}$ $T_{vj}$ $T_{stg}$	Maximum thermal resistance ( Junction to case) Maximum thermal resistance ( Case to heat sink) Junction temperature Storage temperature	1.0 $^\circ\text{C}/\text{W}$ 0.25 $^\circ\text{C}/\text{W}$ 125 $^\circ\text{C}$ 125 $^\circ\text{C}$
Mounting torque		5 Nm/Bolt
Weight	Approx.	165 gms
$V_{(isol)}$	Ac 50 Hz rms 1 min	3000 volts
Package Outline		IR-21

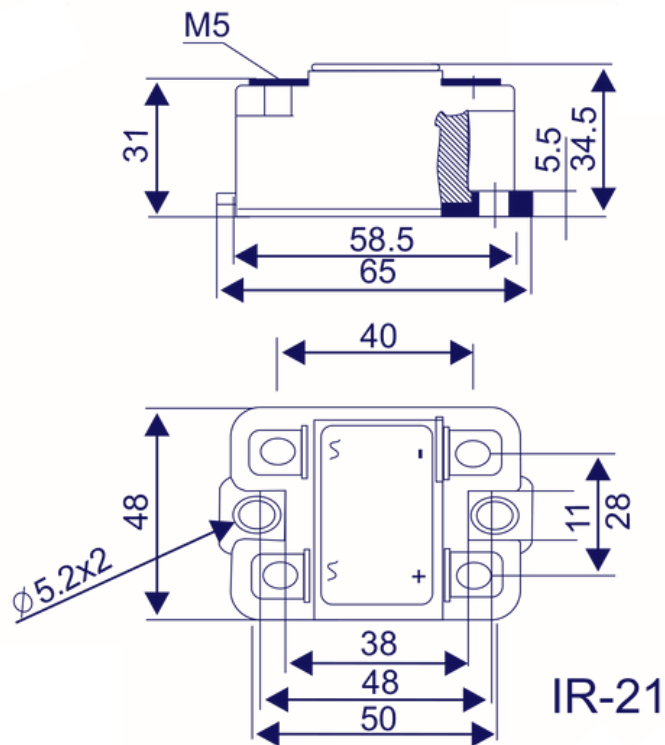
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CIRCUIT DIAGRAM



PACKAGE OUTLINE



all dimensions in mm