

# BRIDGE RECTIFIERS MD8TU100



## FEATURES

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

## TYPICAL APPLICATIONS

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

**BRIDGE  
RECTIFIERS**  
**MD8TU100**



TECHNICAL DATA

DEVICE TYPE

$V_{RRM}$   
(V)

$V_{RSM}$   
(V)

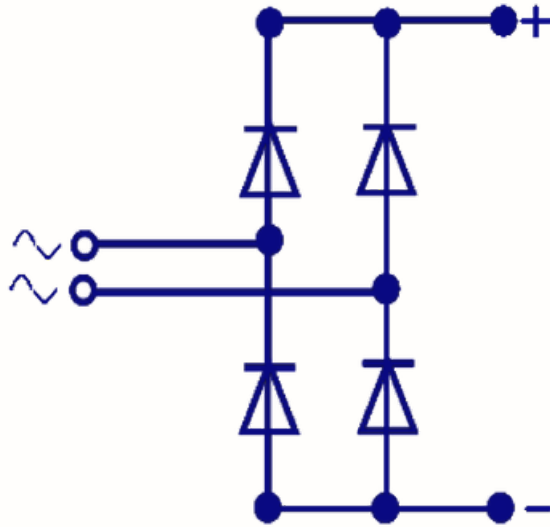
MD8TU100/04	400	500
MD8TU100/12	1200	1300
MD8TU100/16	1600	1700

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current $T_c = 110^\circ\text{C}$	100 A
$V_{FM}$	Maximum peak forward Voltage drop @ 150 AP	1.35V
$I_{FSM}$	Maximum peak one cycle (non-rep.) surge current 10 msec	1100 A
$I^2t$	Max. $I^2t$ rating (non-rep.) for 10 msec	6600A <sup>2</sup> Sec
$I_{RRM}$	Peak reverse current at $T_{vj} =$	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	1.1 $^\circ\text{C}/\text{W}$ 0.275 $^\circ\text{C}/\text{W}$ 150 $^\circ\text{C}$ 150 $^\circ\text{C}$
Mounting torque		5 Nm/Bolt
Weight	Approx.	165 gms
Package Outline		IR-21

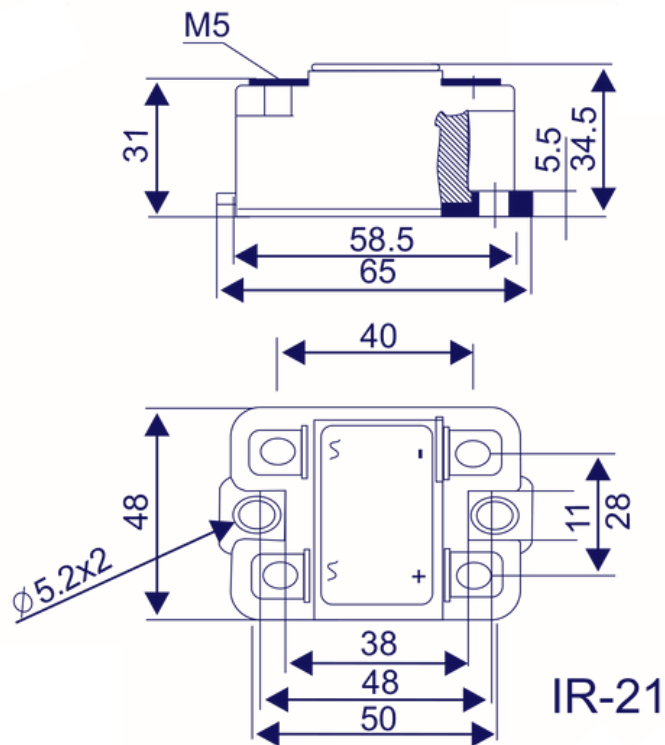
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CIRCUIT DIAGRAM



PACKAGE OUTLINE



all dimensions in mm