

Insel Rectifiers (India) Pvt. Ltd.

151, 152 Udyog Kendra Extn II, Ecotech III
Greater Noida: 201306, U.P., India

☎ 1800 3070 9989 ✉ insel@rectifierindia.com

🌐 www.rectifierindia.com

BRIDGE RECTIFIERS MD6BU60



FEATURES

- ☞ **Reverse voltage up to 1600V**
- ☞ **Heat transfer and isolation through ceramic**
- ☞ **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
MD6BU60**



TECHNICAL DATA

DEVICE TYPE

V_{RRM}
(V)

V_{RSM}
(V)

MD6BU60/04	400	500
MD6BU60/12	1200	1300
MD6BU60/16	1600	1700

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Ta = 45 °C inductive load.	60A
V_{FM}	Maximum peak forward Voltage drop @ 150 AP	1.6 V
I_{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	750 A
I^2t	Max. I^2t rating (non-rep.) for 10 msec	2800 A ² Sec
I_{RRM}	Peak reverse current at Tvj = 175°C	10 mA
$R_{th(j-c)}$	Junction to heat sink	0.27°C/W
Tvj	Junction temperature	150 °C
Tstg	Storage temperature	150 °C
Mounting torque		5 Nm/Bolt
Weight	Approx.	150 gms
Package Outline		IR-20

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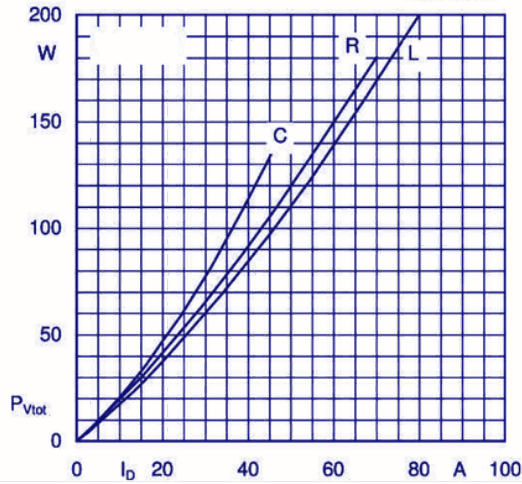


FIG. 1 3L power dissipation vs. output current

FIG. 2 3R power dissipation vs. case temperature

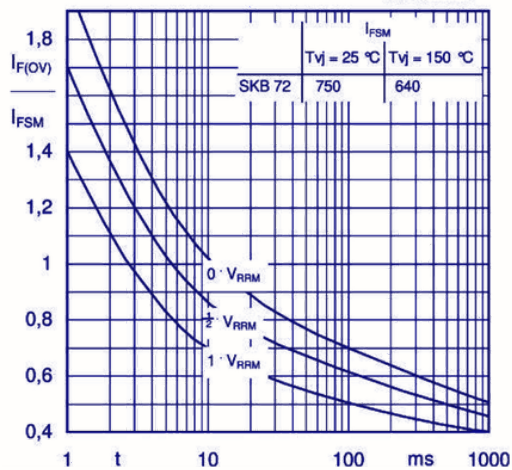
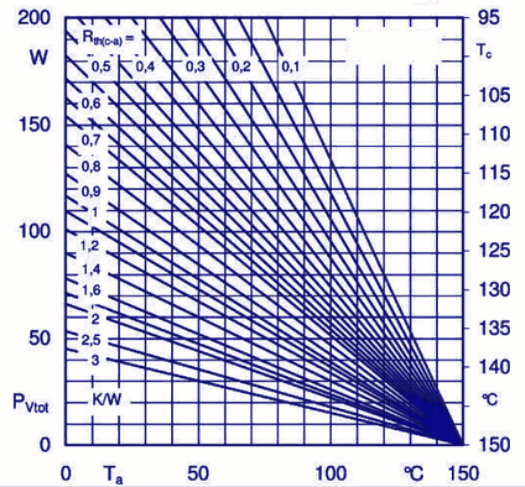


FIG. 3 surge overload characteristics vs. time

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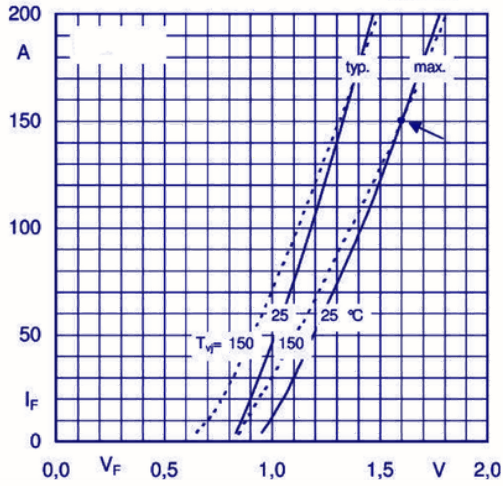
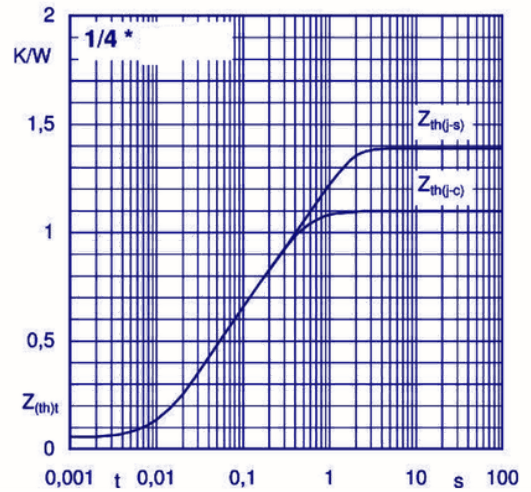


FIG. 4 forward characteristics of a diode arm

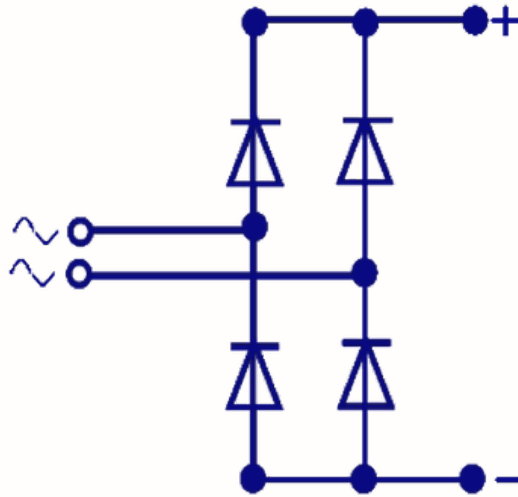
FIG. 5 transient thermal impedance vs. time



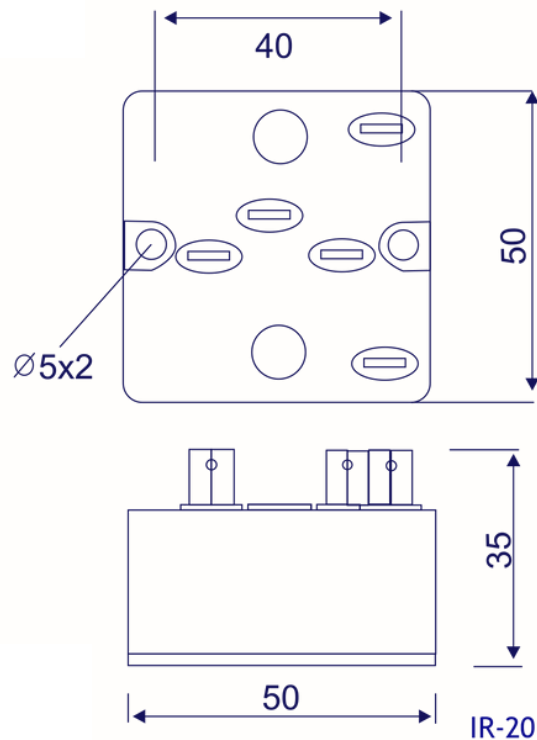
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CIRCUIT DIAGRAM



PACKAGE OUTLINE



all dimensions in mm