FUJI ELECTRIC

2RI 100E-060/080

2-Pack Diode
600/800 V
100 A

POWER DIODE MODULE

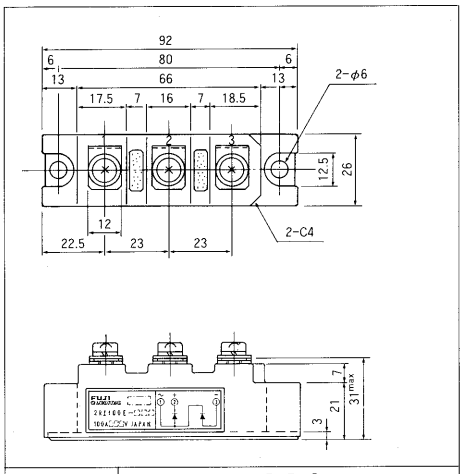
Features

- All the terminals and the mounting plate are electrically isolated. These modules can be installed in the same cooling fin as other modules, thus saving installation space – a cost-effective feature.
- The diode chips are coated with a glass of zinc oxide, making them highly resistant to temperature and humidity variation.
- Two diodes chips are connected in series internally, so allowing the rectifying circuit to be simplified.

Applications

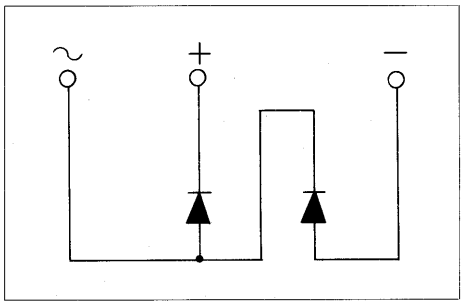
- Inverters for AC motors
- Power supply units for DC motors
- DC power supply units for battery chargers
- General purpose DC power supply units

■ Outline Drawings



CASE	R204

■ Inner Circuit Schematic



■ Maximum Ratings and Characteristics

• Absolute Maximum Ratings

Items	Symbols	Conditions	2RI100E −060	2RI100E −080	Units
Repetitive peak reverse voltage	V_{RRM}		600	800	V
Non-repetitive peak reverse voltage	V_{RSM}		660	880	V
Average forward current	$I_{F(AV)}$	50/60 Hz Sinewave, T_C = 103°C	2×100		A
Surge current	I_{FSM}	Rated load conditions	2000		A
I^2t	I^2t	Rated load conditions	16000		A^2s
Junction temperature	T_j		−40~+150		°C
Storage temperature	T_{stg}		−40~+150		°C
Tightening torque		Mounting screw: M5	25±5		kg·cm
Vibration resistance			5		G
Dielectric strength		Between terminals and base	2000 VAC 1min		
Net. Weight			180		g

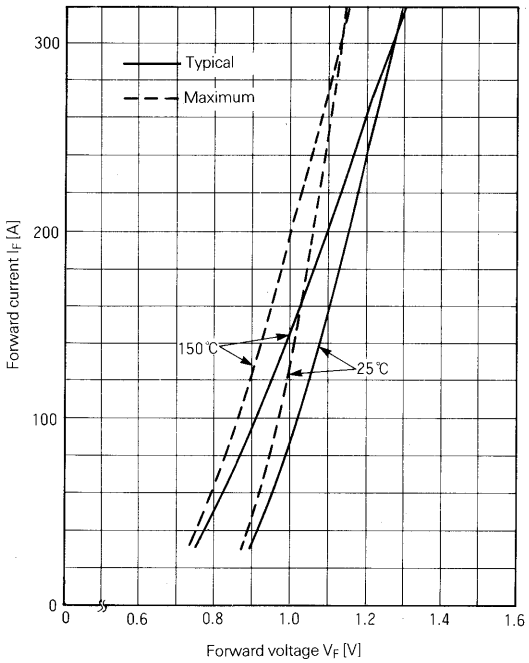
• Electrical Characteristics

Items	Symbols	Conditions	Min	Typ	Max	Units
Forward voltage	V_{FM}	T_j=25°C, I_{FM}=320 A			1.30	V
Reverse current	I_{RRM}	T_j=150°C, V_R=V_{RRM}			20	mA

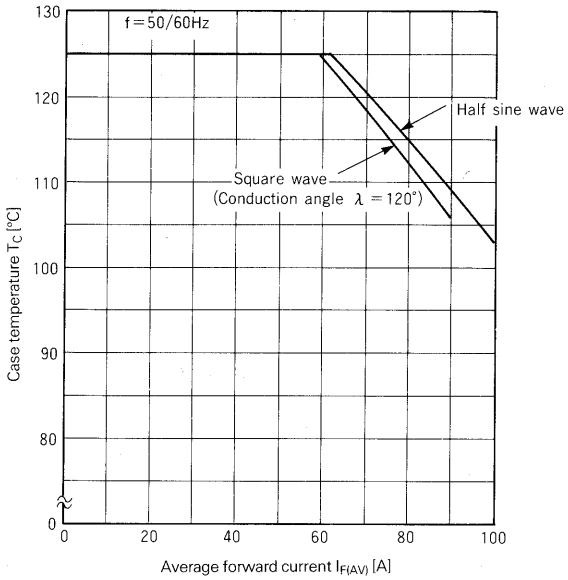
• Thermal Characteristics

Items	Symbols	Conditions	Min	Typ	Max	Units
Thermal resistance (Junction to case)	$R_{th(j-c)}$	50/60 Hz Sinewave, Thermal resistance for total loss			0.20	°C/W
Thermal resistance	$R_{th(c-f)}$	With thermal compound			0.10	°C/W

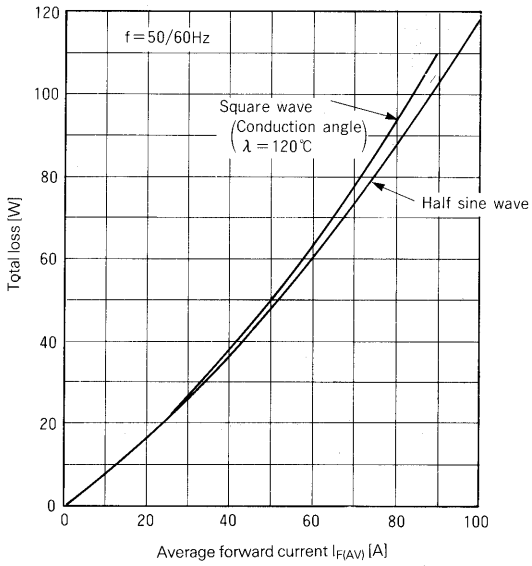
■ Characteristic curves



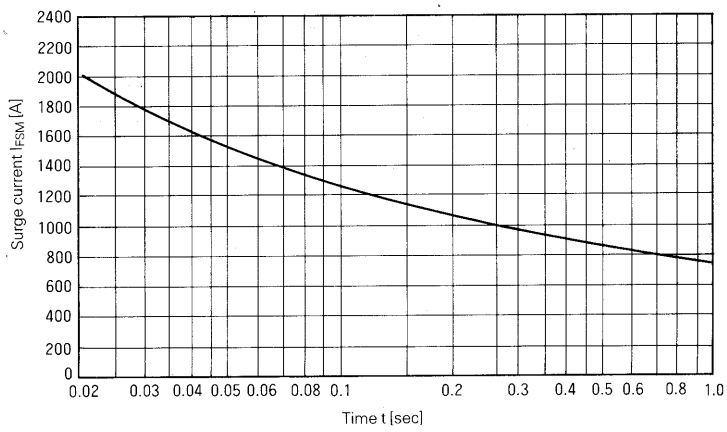
Forward Characteristics



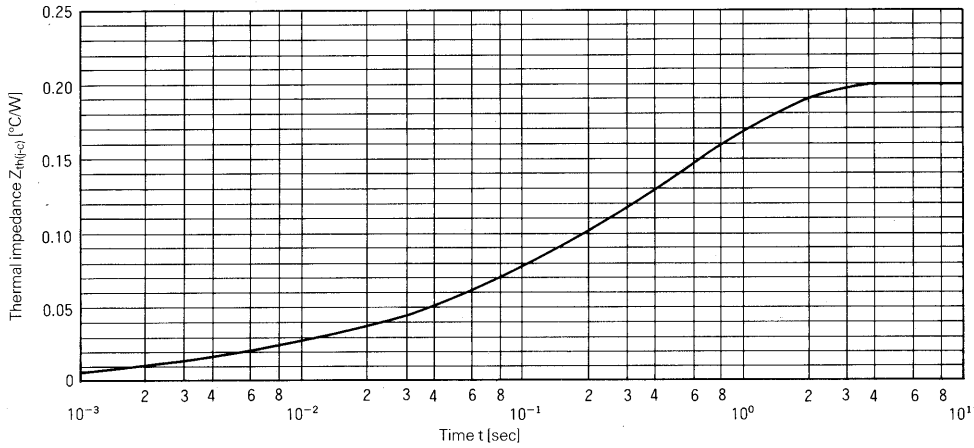
Case Temperature — Forward Average Current



Power Loss — Forward Average Current



Surge Current



Transient Thermal Impedance

For more information, contact:

Collmer Semiconductor, Inc.
P.O. Box 702708
Dallas, TX 75370
972-733-1700
972-381-9991 Fax
http://www.collmer.com

Littlediode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.