

2RI150E(2x150A)

POWER DIODE MODULE

600V,800V / 150A

2 in one-package

■ Features

- Glass Passivation Chip
- Easy Connection
- Insulated Type

■ Applications

- Inverters
- Battery Chargers
- DC Motors
- General Purpose DC Power Supplies

■ Maximum ratings and characteristics

● Absolute maximum ratings

Item	Symbol	Conditions	Rating		Unit
			-060	-080	
Repetitive peak reverse voltage	V_{RRM}		600	800	V
Non-repetitive peak reverse voltage	V_{RSM}		660	880	V
Average output current	I_O	50/60Hz Sine wave, $T_c=105^\circ\text{C}$	2x150		A
Surge current	I_{FSM}	From rated load, Sine wave 10ms	3200		A
I^2t	I^2t	From rated load	40960		A ² s
Operating junction temperature	T_j		-40 to +150		°C
Storage temperature	T_{stg}		-40 to +125		°C
Isolation voltage	V_i		AC2000(1min.)		V
Screw torque	Terminals *1		11.0	*1	N·m
	Mountings *2		3.5	*2	N·m

*1: Recommendable value : 10.0 to 11.0 N·m(M8)

*2: Recommendable value : 2.5 to 3.0 N·m(M5)

● Electrical characteristics (Ta=25°C Unless otherwise specified)

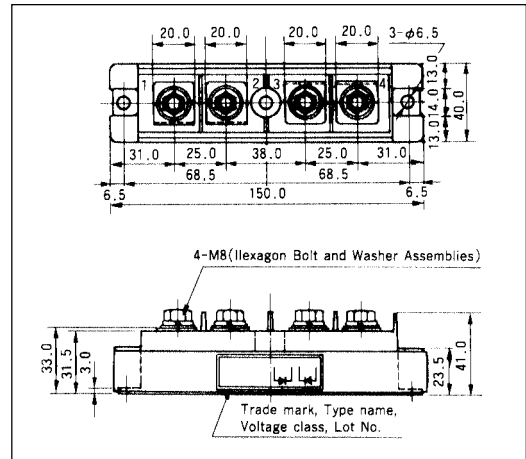
Item	Symbol	Min.	Typ.	Max.	Unit
Forward voltage drop	V_{FM}			1.30	V
Reverse current	I_{RRM}			30	mA

● Thermal Characteristics

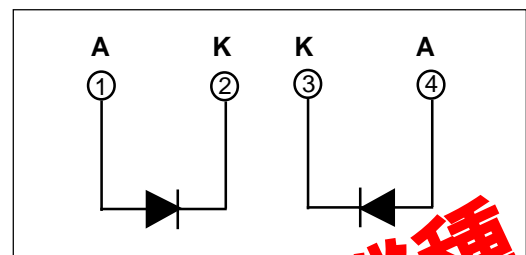
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Thermal resistance	$R_{th(j-c)}$	Junction to case			0.125	°C/W
	$R_{th(c-f)}$	the base to cooling fin *			0.05	°C/W

* : With Thermal Compound

Outline Drawings, mm



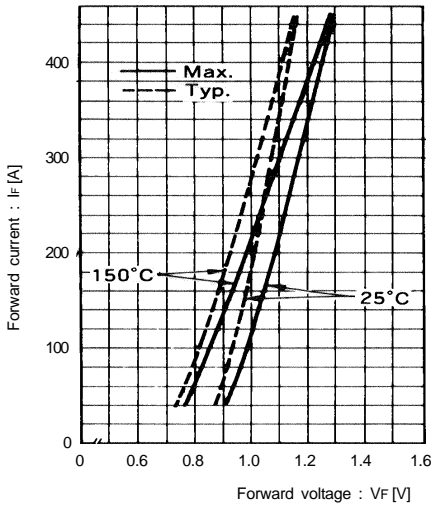
■ Inner Circuit Schematic



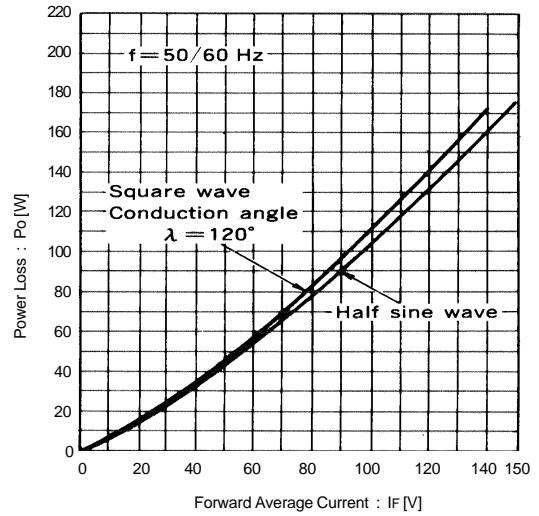
2007年3月 保守停止予定機種
 This product is scheduled to be obsolete on march 2007.
 Not recommend for new design.

■ Characteristics

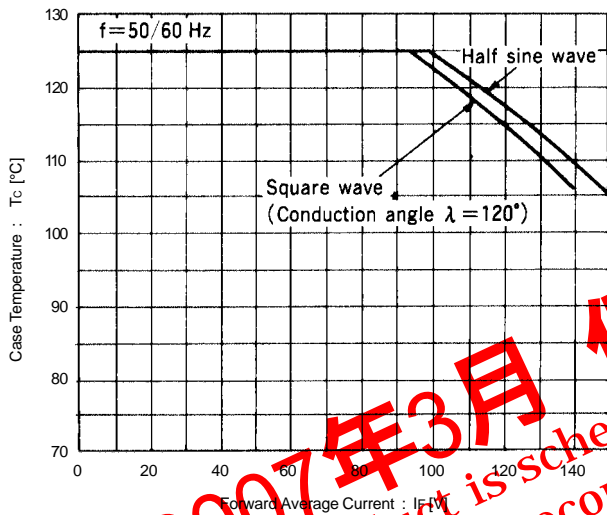
Forward Characteristics



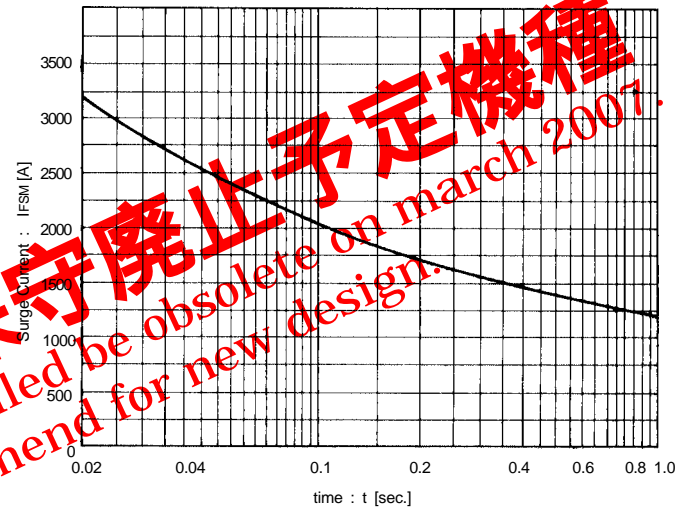
Forward Average Current vs. Power Loss



Forward Average Current vs. Case Temperature



Surge Current



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Transient Thermal Impedance

