2RI60E(2x60A)

POWER DIODE MODULE

600V,800V / 60A

2 in one-package

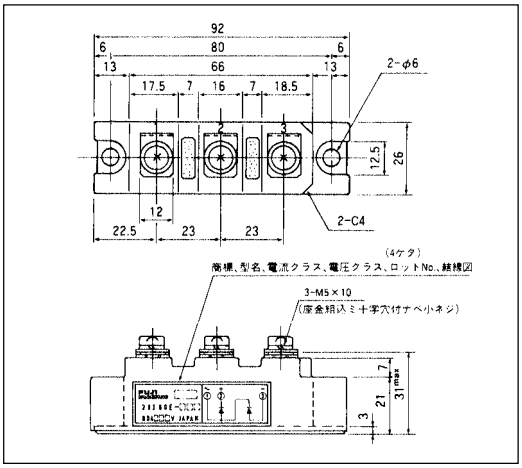
■ Features

· Glass Passivation Chip
· Easy Connection
· Insulated Type

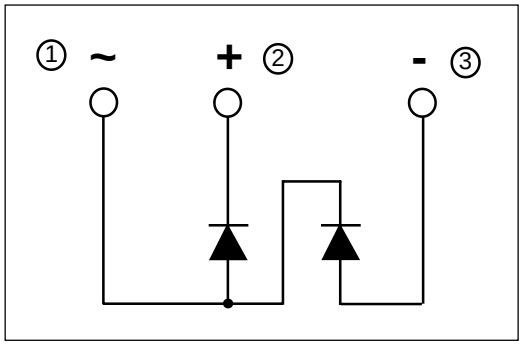
■ Applications

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

■ Outline Drawings, mm



■ Inner Curcuit Schematic



■ 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, Tc=113°C	2 x 60		A
Surge current	I_{FSM}	From rated load, Sine wave 10ms	1200		A
I^2t	I^2t	From rated load	6000		A^2s
Operating junction temperature	T_j		-40 to +150		°C
Storage temperature	T_{stg}		-40 to +125		°C
Isolation voltage	V_{is}		AC2000(1min.)		V
Screw torque			3.5 *1		N·m

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

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

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage drop	V_{FM}	Tj=25°C, I_{FM}=190A			1.30	V
Reverse current	I_{RRM}	Tj=150°C, V_R=V_{RRM}			20	mA

● Thermal Characteristics

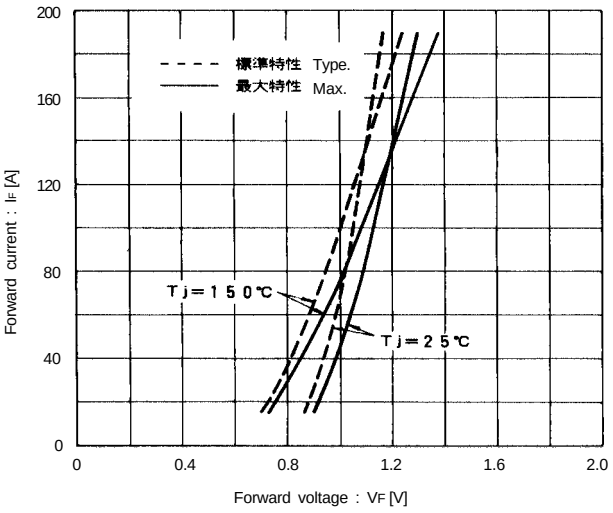
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Thermal resistance	$R_{th(j-c)}$	Junction to case			0.25	°C/W
	$R_{th(c-f)}$	the base to cooling fin *			0.10	°C/W

* : With Thermal Compound

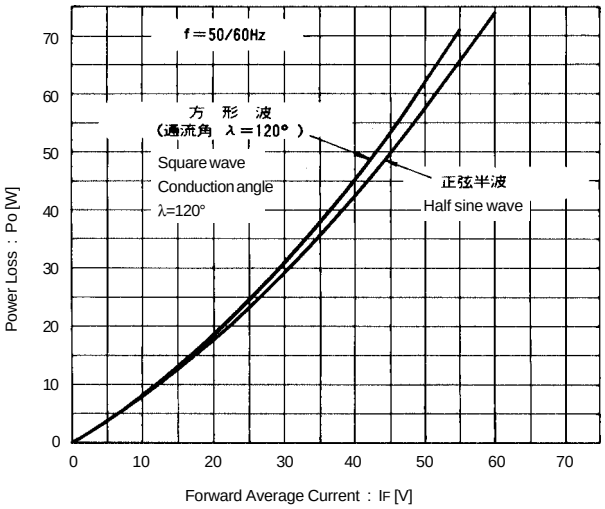
http://store.iiic.cc/

■ Characteristics

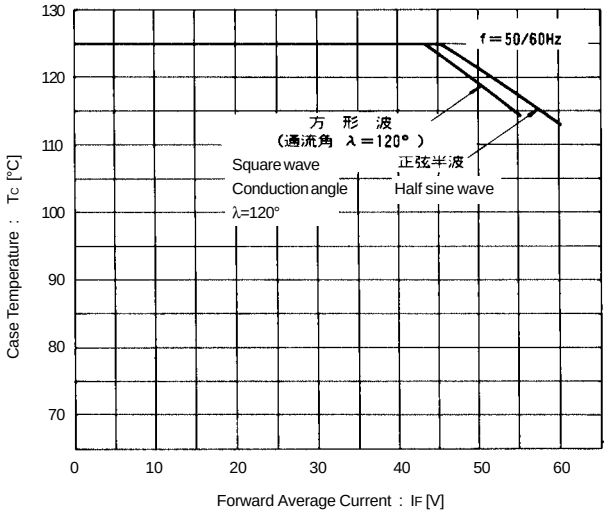
Forward Characteristics



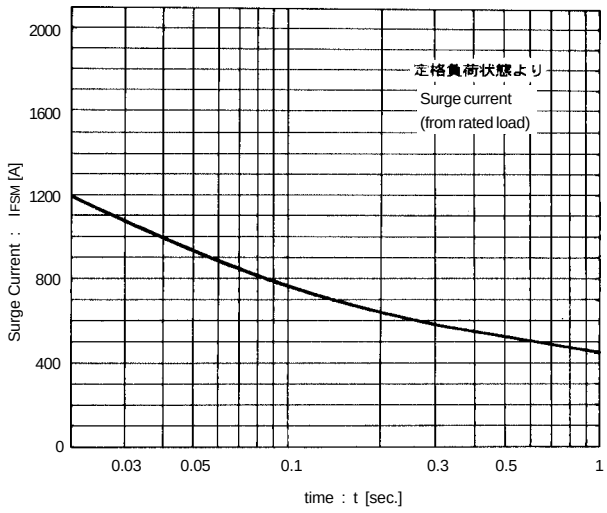
Forward Average Current vs. Power Loss



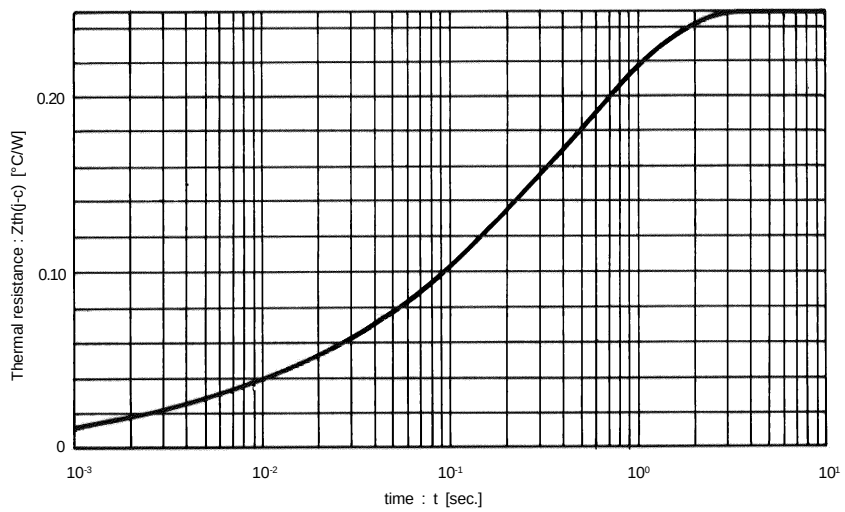
Forward Average Current vs. Case Temperature



Surge Current



Transient Thermal Impedance



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