

6 in one-package

- Glass Passivation Chip
- Easy Connection
- Insulated Type

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

- Absolute maximum ratings

Item	Symbol	Conditions	Rating		Unit
			-120	-160	
Repetitive peak reverse voltage	V_{RRM}		1200	1600	V
Non-repetitive peak reverse voltage	V_{RSM}		1320	1760	V
Average output current	I_o	50/60Hz Sine wave, $T_c=93^{\circ}\text{C}$	75		A
Surge current	I_{FSM}	From rated load, Sine wave 10ms	1000		A
I^2t	I^2t	From rated load	4000		A^2s
Operating junction temperature	T_j		-40 to +150		$^{\circ}\text{C}$
Storage temperature	T_{stg}		-40 to +125		$^{\circ}\text{C}$
Isolation voltage	V_{is}		AC2500(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)

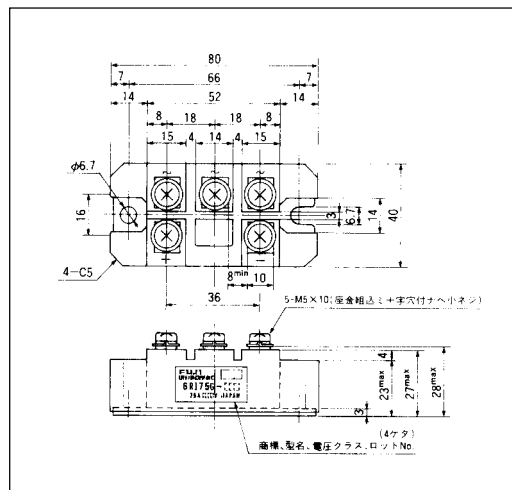
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage drop	V _{FM}	T _J =25°C, I _{FM} =75A			1.30	V
Reverse current	I _{RRM}	T _J =150°C, V _R =V _{RRM}			15.0	mA

● Thermal Characteristics

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Thermal resistance	R _{th(j-c)}	Junction to case			0.30	°C/W
	R _{th(c-f)}	the base to cooling fin *			0.06	°C/W

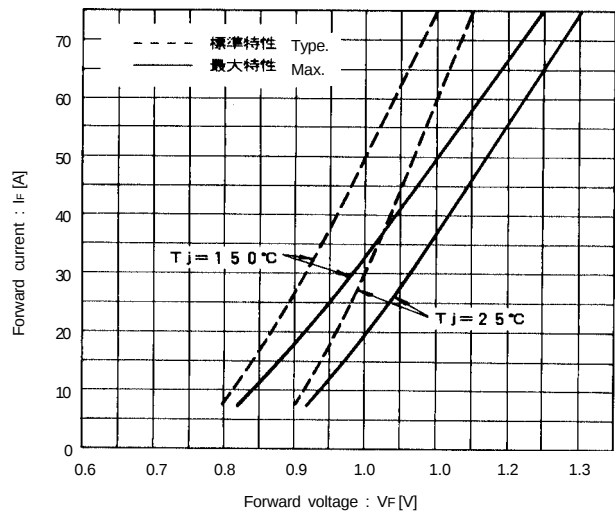
* : With Thermal Compound

■ Outline Drawings, mm

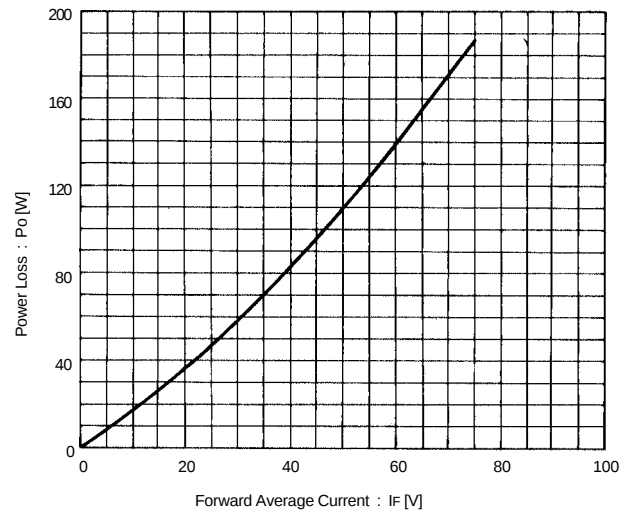


Characteristics

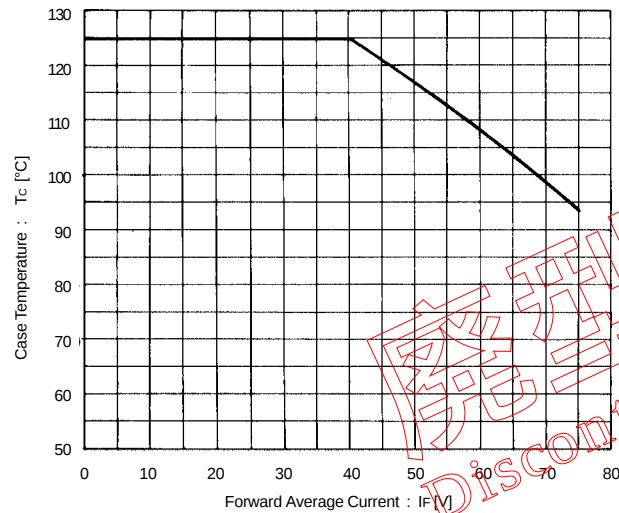
Forward Characteristics



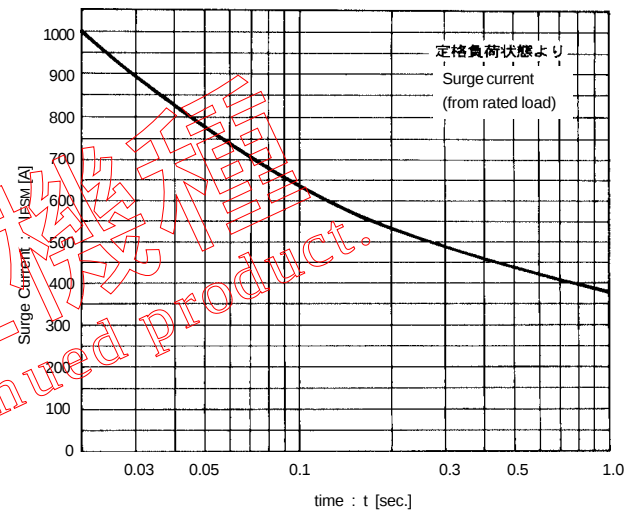
Forward Average Current vs. Power Loss



Forward Average Current vs. Case Temperature



Surge Current



Transient Thermal Impedance

