

Target specification of Converter diode module (Tentative)

Type : 6RI75P-160

1. Maximum rating

Item		Symbol	Condition	Max.	Unit
Voltage Ratings	Repetitive peak reverse voltage	VRRM		1600	V
	Non-repetitive peak reverse voltage	VRSM		1760	V
Current Ratings	Average output current	Io	50/60Hz sine wave Tc=93℃	75	A
	One cycle surge current (50Hz)	IFSM	From rated load	1000	A
	I ² t	I ² t	From rated load	4000	A ² s
Temperature ratings	Operation junction temperature	Tj		-40 to +125	℃
	Storage junction temperature	Tstg		-40 to +125	℃
Isolation voltage		Viso	AC : 1min.	2500	V
Mounting screw torque			M5 screw		N·m

2. Electrical characteristics

Item	Symbol	Condition	min.	typ.	max.	Unit
Forward voltage	VFM	Tj=25℃, IFM=75A			1.30	V
Reverse current	IRRM	Tj=150℃, VR=VRRM			15	mA

3. Thermal characteristics

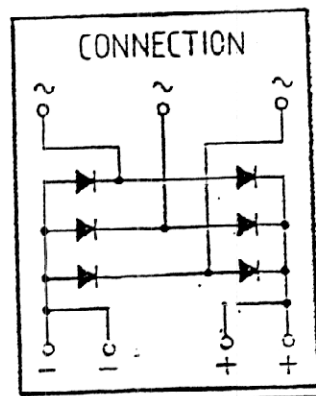
Item	Symbol	Condition	min.	typ.	max.	Unit
Thermal resistance (Junction to case)	Rth(j-c)	Per total loss			0.30	℃/W
Thermal Resistance (Case to fine)	Rth(c-f)	with thermal compound				℃/W

4. Outline drawing and equivalent circuit

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