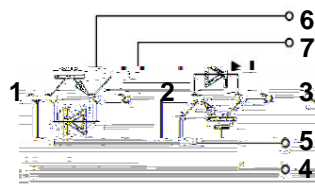


General Description

TRinno IGBT power module provides low conduction and switching losses as well as short circuit ruggedness. It is designed for applications such as Motor Driver, IH , Rectifier and Welder.

Features

- 1200V Field Stop Trench IGBT Technology
- Fast & Soft Recovery Diodes
- Positive Temperature Coefficient
- Short Circuit Withstanding Time : 10 s



Applications

Motor driver, IH(Induction heating), Rectifier, Welder

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	
Collector-Emitter Voltage	V_{CES}	1200	V	
Gate-Emitter Voltage	V_{GES}	± 20	V	
Continuous Collector Current	I_C	$T_C = 25$	200	A
		$T_C = 100$	100	A
Pulsed Collector Current (Note 1)	I_{CM}	200	A	
Diode Continuous Forward Current	I_F	100	A	
Power Dissipation	P_D	$T_C = 25$	658	W
		$T_C = 100$	263	W
Operating Junction Temperature	T_{vj}	-40 ~ 150		
Storage Temperature Range	T_{STG}	-40 ~ 150		

Notes :

(1) Repetitive rating : Pulse width limited by maximum junction temperature

Thermal Characteristics

Parameter	Symbol	Value	Unit
Maximum Thermal resistance, Junction-to-Case (Per ½ Module)		0.19	K/W
Maximum Thermal resistance, Junction-to-Case (Per ½ Module)		0.75	K/W

IGBT Characteristics

IGBT Characteristics

Fig. 7 RBSOA

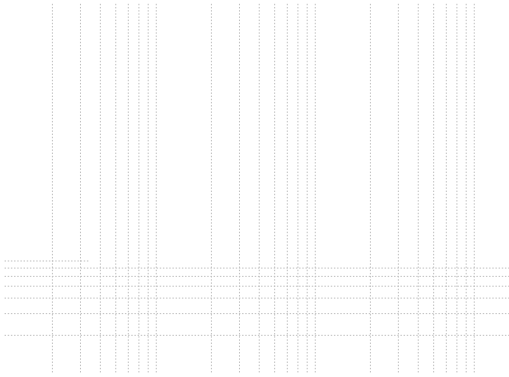


Fig. 8 Load current vs. frequency

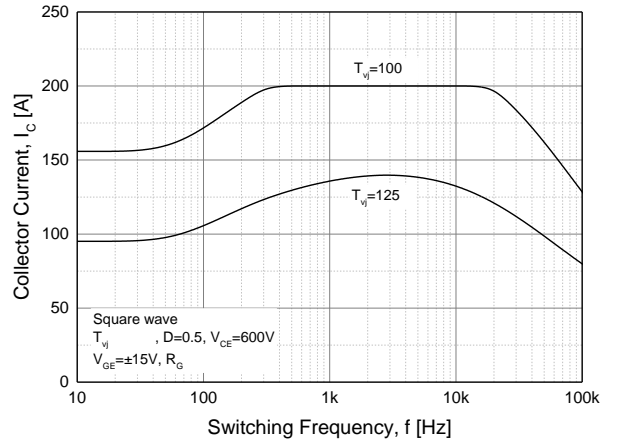
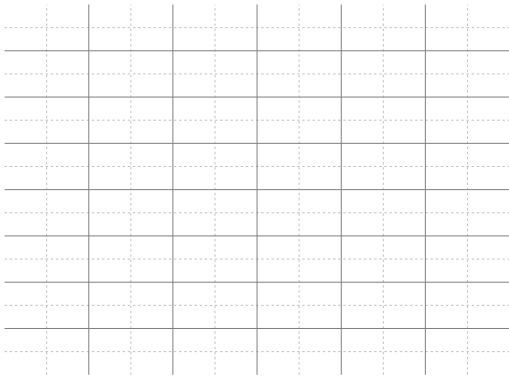
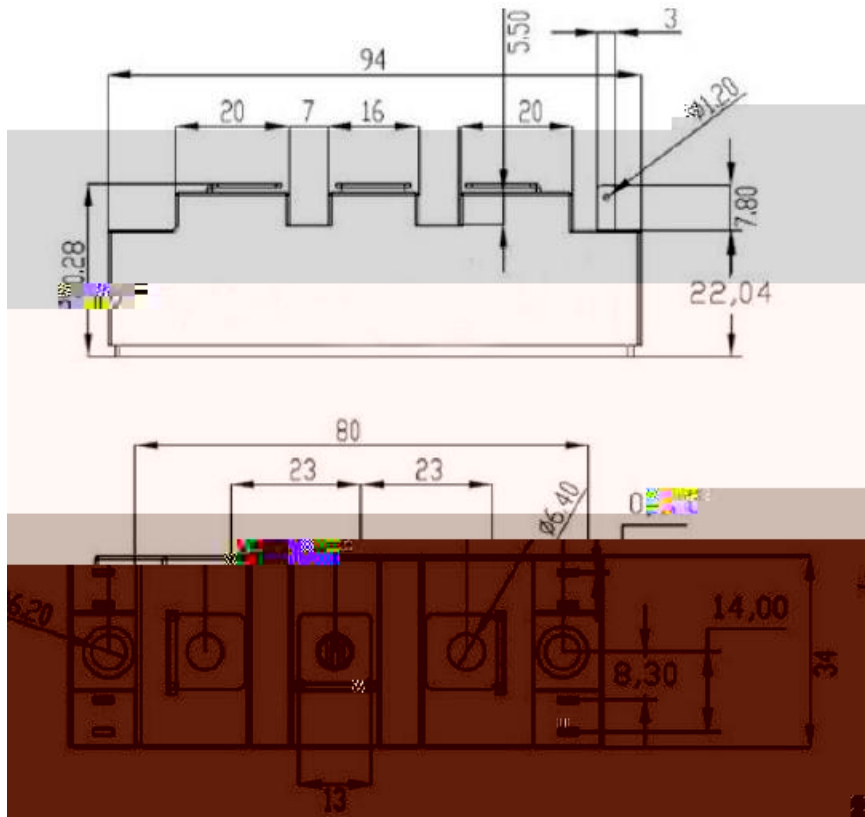


Fig. 9 Conduction characteristics of diode



Package Outline (Dimension in mm)



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