















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	BR35xx Series
Overseas Part Number	BR35xx Series
▶ Equivalent Part Number	BR35xx Series





Single Phase Rectifier Bridge

V_{RRM} 200 to 1200V

I_D 35 Amp

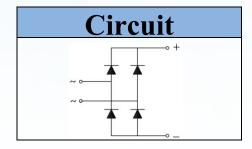
Features

- Very low forward voltage drop
- High surge current capability
- Low thermal resistance
- High thermal conductivity

Applications

- Single phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Industrial automation equipment
- Input rectifiers for inverter





Module Type

Туре	V_{RRM}	V_{RSM}
BR3502	200V	300V
BR3504	400V	500V
BR3506	600V	700V
BR3508	800V	900V
BR3510	1000V	1100V
BR3512	1200V	1300V

Maximum Ratings

Symbol	Item	Conditions	Values	Unit
I _D	Output Current	Single Phase,Sin Full Wave T _c = 55°C	35	А
I _{FSM}	Surge Forward Current	$T_j = 25$ °C, $t = 50$ Hz(10ms), $V_R = 0$ V	400	Α
l ² t	Circuit Fusing Consideration	t = 10ms T _j =25°C	800	A ² s
V _{ISO}	Isolation Breakdown Voltage	AC 50Hz/60Hz; R.M.S; 1min	2000	V
Tj	Operating Junction Temperature		-40 to +150	°C
T _{stg}	Storage Temperature		-40 to +125	°C
Ms	Mounting Torque	To Heatsink(M5)	2.5~3	N⋅m
Weight	Module (Approximately)		16	g

Thermal Characteristics

Symbol	Item	Conditions	Values	Unit
R _{th(j-c)}	Thermal Impedance, Max	Junction to Case(Per Total)	1.4	°C/W
		Junction to Case(Per Diode)	5.6	°C/W

Electrical Characteristics

Cymbol	Item	Conditions	Values			I Incid
Symbol			Min.	Тур.	Max.	Unit
V_{FM}	Forward Voltage Drop, Max	$T_j = 25^{\circ}C$ $I_F = 17.5A$	_	_	1.1	V
I _{RRM} Repetitive Peak Reverse Current, Ma	Popotitivo Pook Poverse Current May	$T_j = 25$ °C $V_R = V_{RRM}$	_	_	0.1	mA
	Repetitive Peak Reverse Current, Max	$T_j = 150$ °C $V_R = V_{RRM}$	_	_	3	
V _{T0}	Threshold Voltage, for power loss calculation only	T _j = 125°C	0.75		V	
r _T	Slope Resistance, for power loss calculation only	T _j = 125°C	4.0		mΩ	



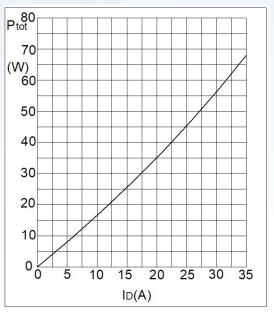


Fig1. Power Dissipation

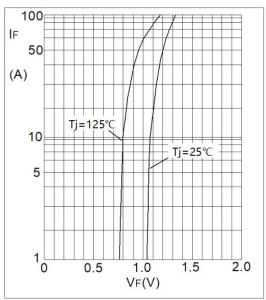


Fig3. Forward Characteristics

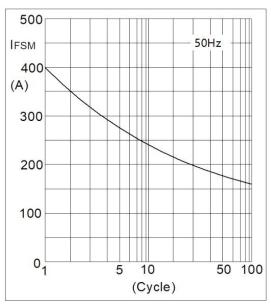


Fig5. Max Non-Repetitive Forward Surge Current

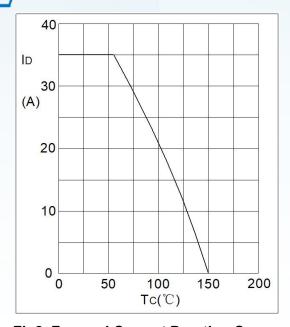


Fig2. Forward Current Derating Curve

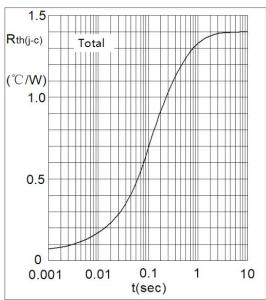
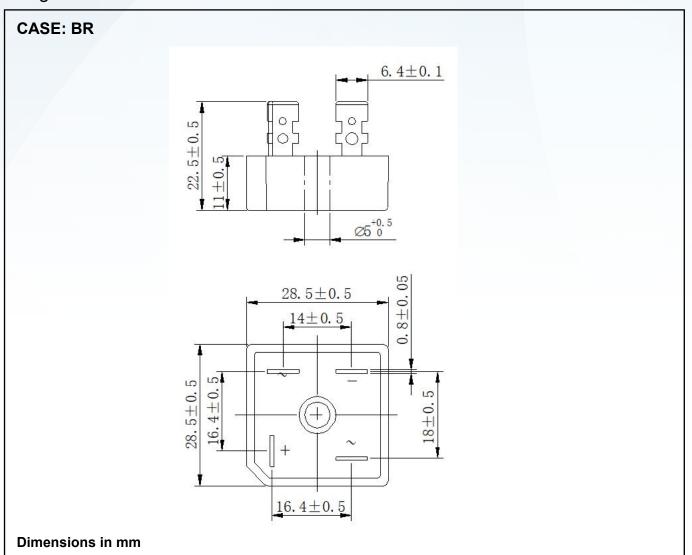


Fig4. Transient Thermal impedance

Performance Curves



Package Outline Information





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