



# **SBR35 SERIES**

# **Silicon Passivated 3 Phase Bridge Rectifiers**

# Reverse Voltage - 50 to 1600Volts Forward Current - 35 Amperes

#### **Features**

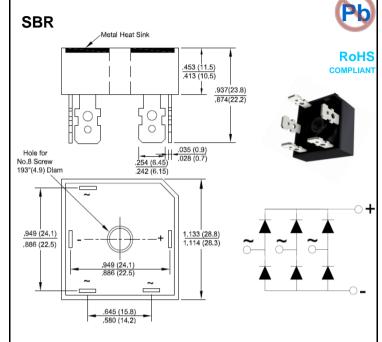
- Low forward voltage drop
- High current capability
- High reliability

### **Mechanical Data**

- Case: Epoxy case with heat sink
- Polarity: Symbol marked on body
- Mounting position:
- Bolt pass through the mounting hole of body then fix to heat sink
- Mounting torque: 2 N.m

## **Applications**

 For use in high power supply inverters, servo motor and welding machine applications



Package Outline Dimensions in Inches (Millimeters)

## **Maximum Ratings and Electrical Characteristics**

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

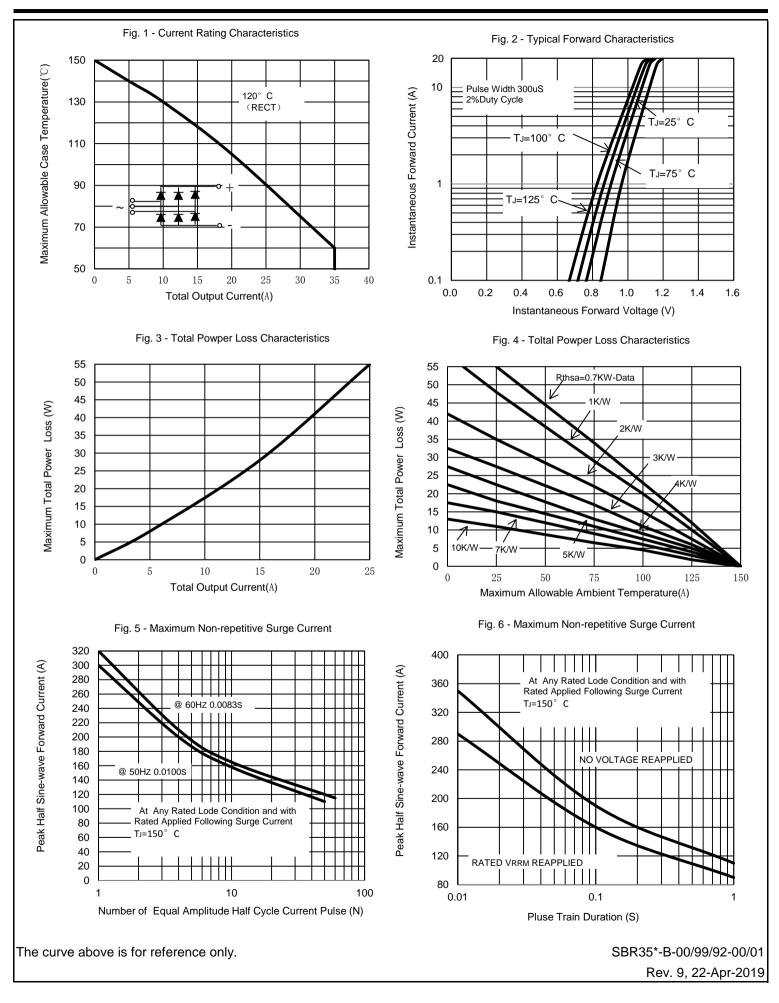
Characteristics	Symbol	SBR35										Unit
	Symbol	-00	-01	-02	-04	-06	-08	-10	-12	-14	-16	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	1120	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	VRSM	75	150	275	500	725	900	1100	1300	1500	1700	V
Maximum Average Forward Rectified Current @Tc=60 ℃	I(AV)	35									Α	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	500										Α
Superimposed on Rated Load (JEDEC Method)	IF5W											
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t	1030									$A^2S$	
Peak Forward Voltage per Diode at 17.5A DC	VF	1.2									V	
Maximum DC Reverse Current at Rated @Tj=25°C	lr	10										μΑ
DC Blocking Voltage per Diode @TJ=125℃	IK	5.0										mA
Typical Thermal Resistance Junction to Case per Diode	Rejc	1.16									°C/W	
Typical Thermal Resistance Case to Heatsink per Diode	Recs	0.2									°C/W	
RMS Isolation Voltage from Case to Lead	Viso	2500										V
Operating Junction Temperature Range	TJ	-55 to +150										$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150									$^{\circ}$	

Note: The typical data above is for reference only

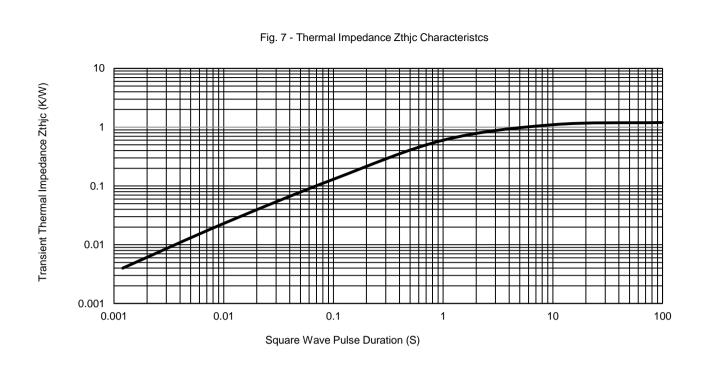
SBR35\*-B-00/99/92-00/01

Rev. 9, 22-Apr-2019









The curve above is for reference only.

SBR35\*-B-00/99/92-00/01

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Rev. 2, 16-Mar-2017