

**GENERAL PURPOSE 3 PHASE BRIDGE RECTIFIER**  
**VOLTAGE RANGE 1200 to 1600 Volts CURRENT 35 Amperes**

**FEATURES**

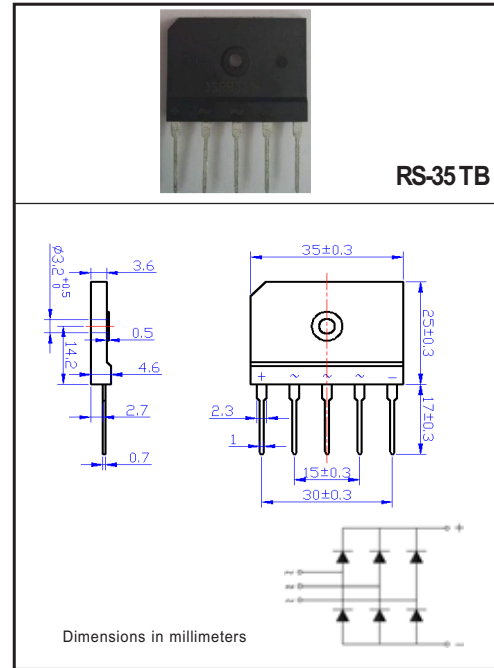
- \* Glass passivated chip
- \* Surge overload rating : 400 amperes peak
- \* High forward surge current capability
- \* General purpose 3 phase Bridge rectifier applications

**MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-0
- \* UL list the recognized component directory, file #E252754
- \* Mounting position: Any
- \* Packaging : 100PCS/Box, 1000PCS/Carton

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
resistive or inductive load.



**MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)**

RATINGS	SYMBOL	RS3508TB	RS3509TB	RS3510TB	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1200	1400	1600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	840	980	1120	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	1200	1400	1600	Volts
Maximum RSM Voltage	V <sub>RSM</sub>	1300	1500	1700	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	35			Amps
Peak Forward Surge Current 10 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	400			Amps
Typical Current Squared Time	I <sup>2</sup> <sub>t</sub>	800			A <sup>2</sup> /S
Insulation voltage	V <sub>iso</sub>	2500			Volts
Typical Thermal Resistance (Note 1)	R <sub>θJC</sub>	0.96			°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-40 to + 150			°C

**ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)**

CHARACTERISTICS	SYMBOL	RS3508TB	RS3509TB	RS3510TB	UNITS
Maximum Instantaneous Forward Voltage at 17.5A DC	V <sub>F</sub>	1.2			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	5.0			uAmps
	@T <sub>A</sub> = 150°C	3.0			mAmps

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.

2021-12/49  
REV: C

# RATING AND CHARACTERISTICS CURVES ( RS3508TB THRU RS3510TB)

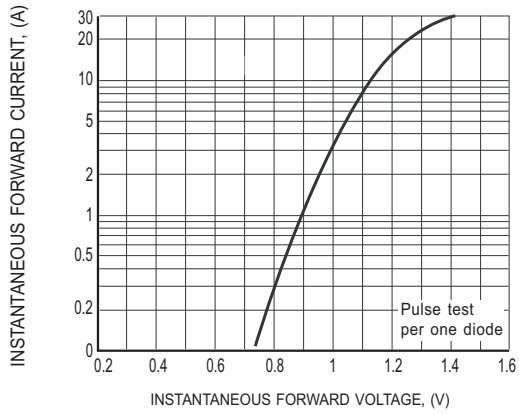


FIG.1 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

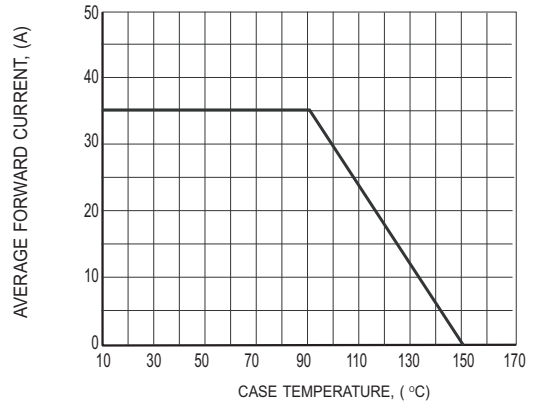


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

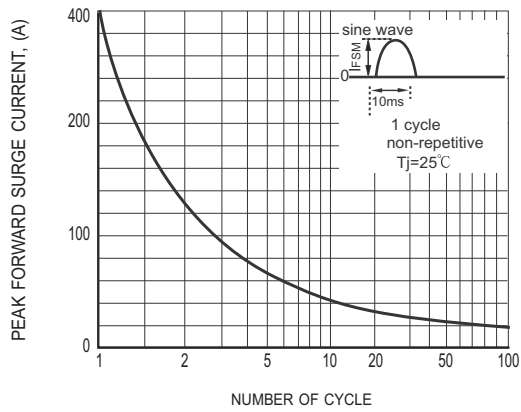


FIG.3 SURGE FORWARD CURRENT CAPABILITY

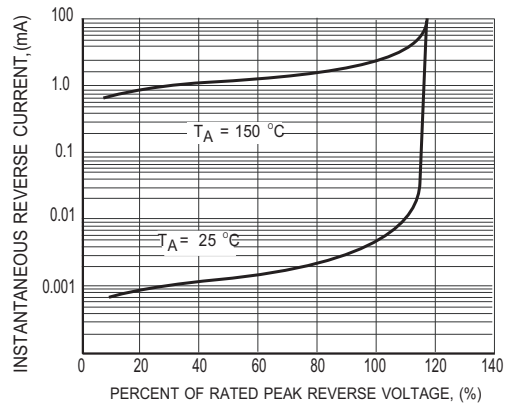
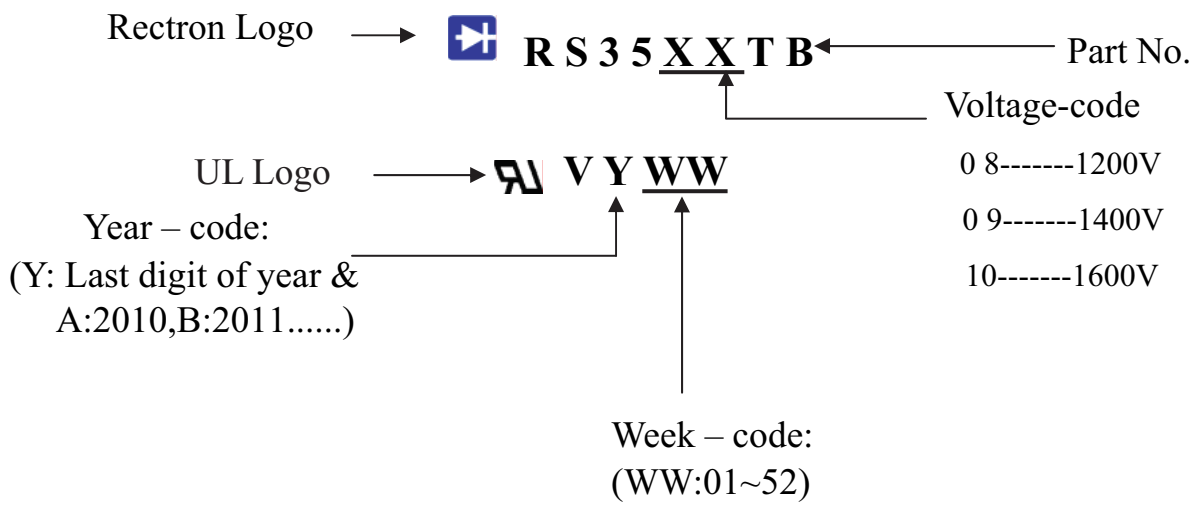


FIG.4 MAXIMUM REVERSE CHARACTERISTICS

## Marking Description



## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
RS-35TB	-B	100	160*129*46	275*175*255	1,000	11.0

### TUBE PACK

PACKAGE	PACKING CODE	EA PER TUBE	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-35TB	-C	10	420*280*205	1,000	---

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