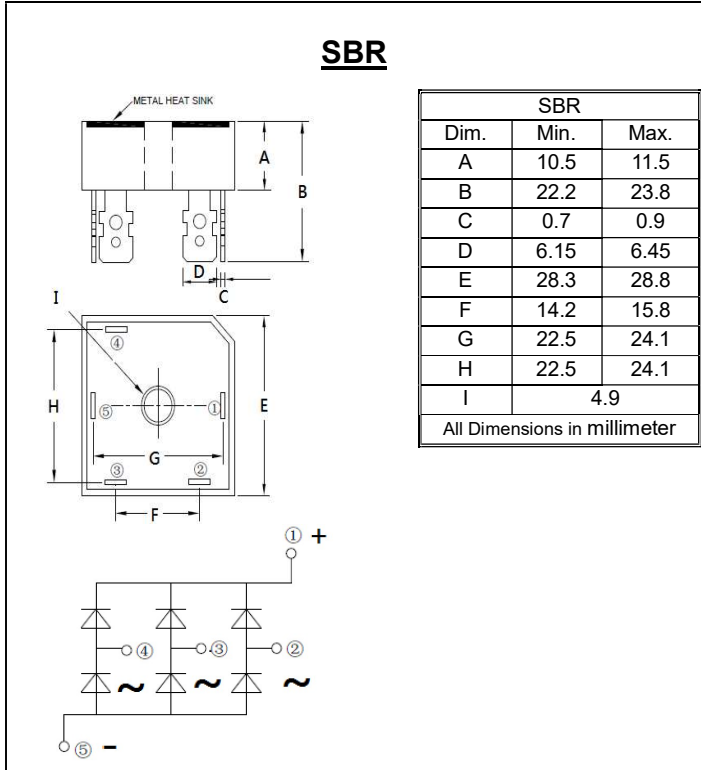


SILICON PASSIVATED THREE PHASE BRIDGE RECTIFIERS

**REVERSE VOLTAGE – 1600 Volts
FORWARD CURRENT – 35 Ampere**

- FEATURES**
- Diffused Junction
 - Low forward voltage drop
 - High Current Capability
 - High Reliability
 - High Surge Current Capability
 - Ideal for Printed Circuit Boards
 - UL recognized file#E95060
- MECHANICAL DATA**
- Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
 - Polarity : As marked on Body
 - Terminals:Plated Leads Solderable per MIL-STD-202,Method 208
 - Weight:20 grams(approx.)
 - Mounting Position:
Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
 - Mounting Torque:20 in lbs. Max.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.

A28BSOLUTE RATINGS

PARAMETER	SYMBOL	SBR3516	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	1600	V
Maximum DC Blocking Voltage	VDC	1600	V
Maximum Average Forward Rectified Current @TC = 60 °C	I(AV)	35	A
Non-Repetitive Peak Forward Surge Current (No Voltage Reapplied t=8.3ms at 60HZ) (No Voltage Reapplied t=10ms at 50HZ) (100% VRRM Reapplied t=8.3ms at 60HZ) (100% VRRM Reapplied t=10ms at 50HZ)	IFSM	500 475 420 400	A
I2t Rating for fusing (No Voltage Reapplied t=8.3ms at 60HZ) (No Voltage Reapplied t=10ms at 50HZ) (100% VRRM Reapplied t=8.3ms at 60HZ) (100% VRRM Reapplied t=10ms at 50HZ)	I2t	1030 1130 730 800	A2 S
RMS Isolation Voltage from Case to Lead	VISO	2500	V
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	MAX.	UNIT
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	RθCS	0.2	K/W
Thermal Resistance Junction to Case at DC Operation per Bridge	RθJC	1.16	K/W

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MAX.	UNIT
Maximum Forward Voltage drop per element at 17.5A Peak	VF	1.2	V
Peak Reverse Current (per leg) @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	IR	10 5	µA mA

FIG.1-CURRENT RATING CHARACTERISTICS

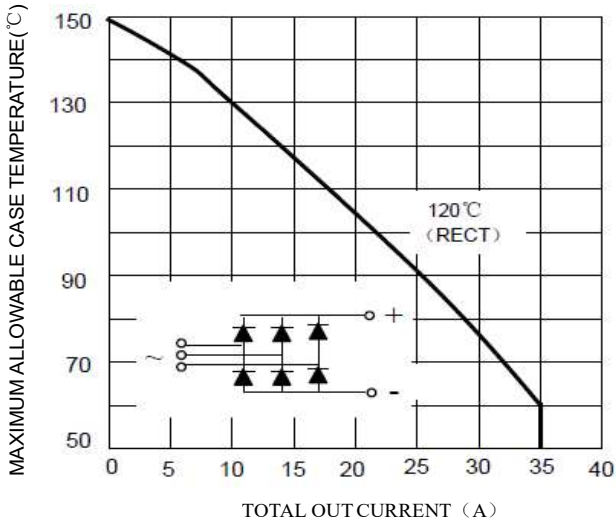


FIG.2-FORWARD VOLTAGE DROP CHARACTERISTICS

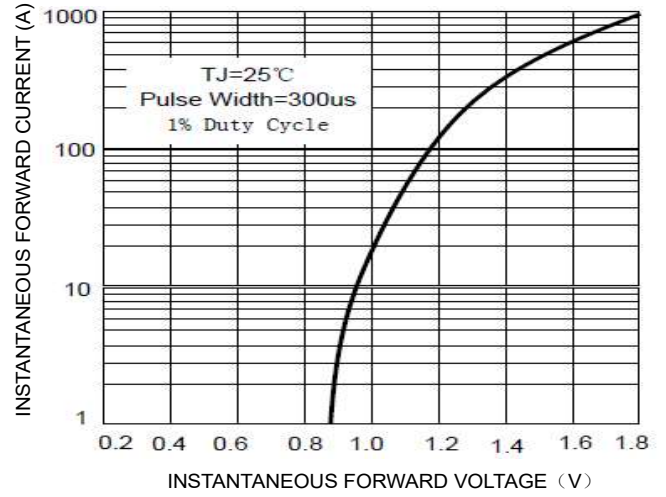


FIG.3-TOTAL POWER LOSS CHARACTERISTICS

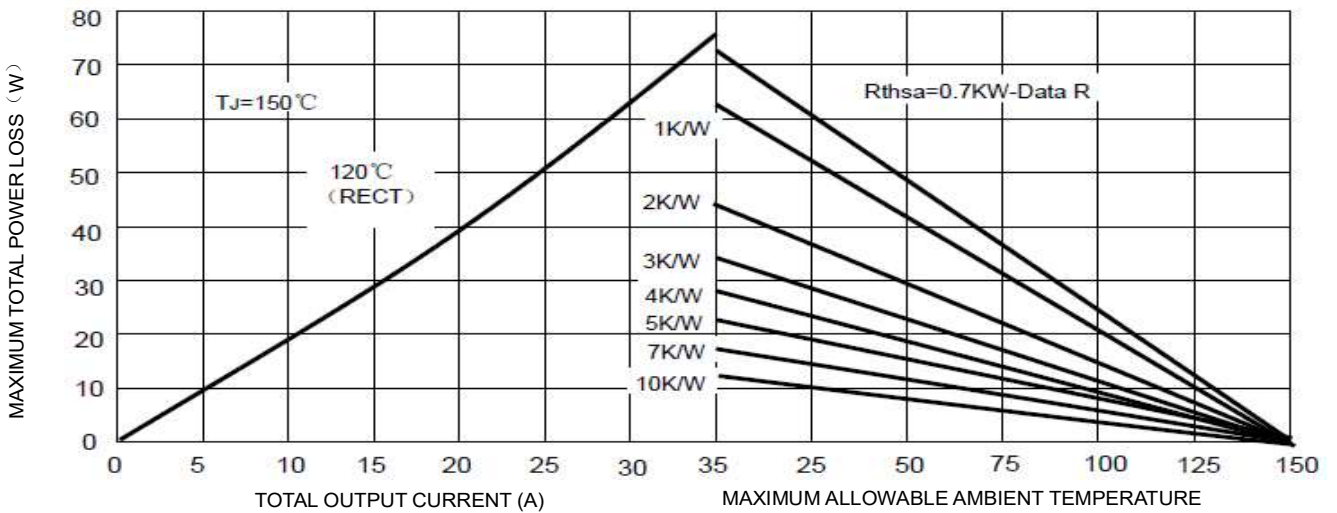


FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

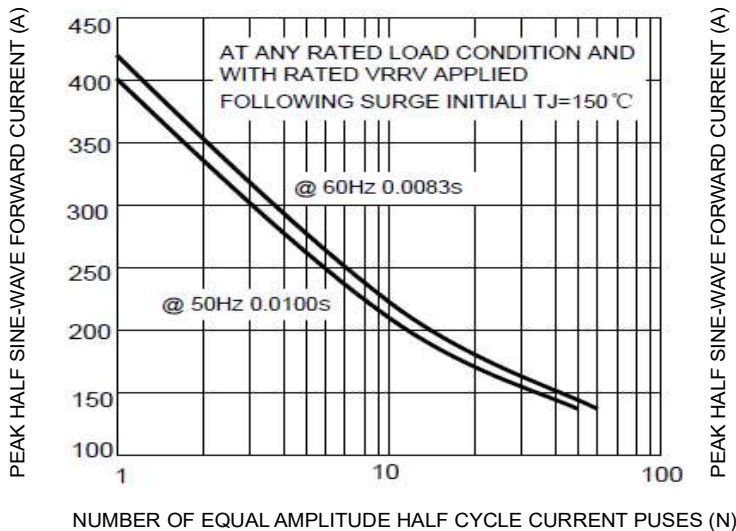


FIG.5-MAXIMUM NON-REPETITIVE SURGE CURRENT

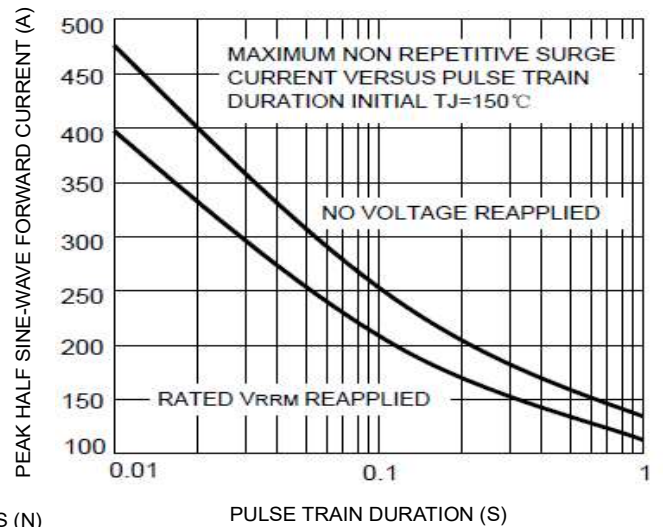
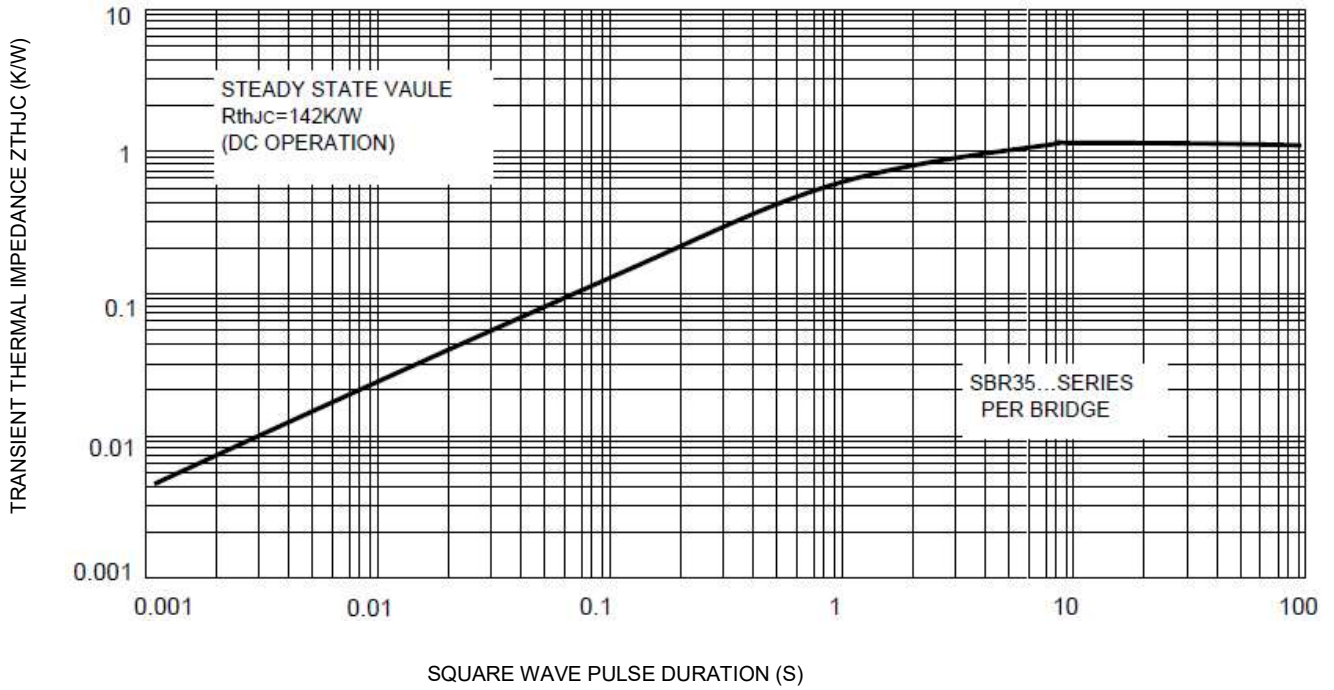


FIG.6-THERMAL IMPEDANCE ZTHJC CHARACTERISTICS



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