multicomp PRO



Features

- Diffused junction
- Low forward voltage drop
- · High current capability
- · High reliability
- High surge current capability
- · Ideal for printed circuit boards

Mechanical Data

Case	: Epoxy case with heat sink laterally mounted in the bridge encapsulation
Terminals	: Plated leads solderable per MIL-STD-202, Method 208
Polarity	: As Marked on Body
Weight	: 20 grams (approx.)
Mounting Position	: Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maxi- mum heat transfer efficiency.
Mounting Torque	: 20 in lbs. Max.

Maximum Ratings And Electrical Characteristics

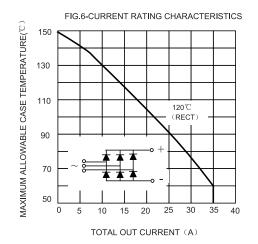
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

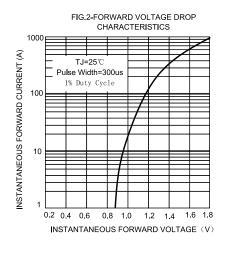
Voltage Ratings												Linit
Characteristics	Symbol	SBR3500	SBR3501	SBR3502	SBR3504	SBR3506	SBR3508	SBR3510	SBR3512	SBR3514	SBR3516	Unit
Peak Repetitive Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	Vrsm	75	150	275	500	725	900	1100	1300	1500	1700	
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	
Forward Conduction												
Characteristics	Symbol	SBR25 Series						Unit				
Maximum Average Forward Rectified Current @Tc = 60°C	lo	35										
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				
I ² t 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)	l²t	1030 12t 1130 730 800						A ² S				

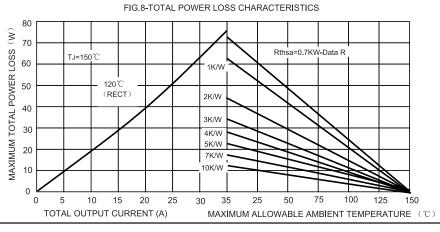


Characteristics	Symbol	SBR25 Series	Unit	
Maximum Forward Voltage drop per element at 12.5A/17.5A Peak	VF	1.2	V	
Peak Reverse Current (per leg) @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lr	10 5	μA mA	
RMS Isolation Voltage from Case to Lead	Viso	2,500	V	
Thermal Characteristics				
Operating Temperature Range	TJ	-55 to +150	°C	
Storage Temperature Range	Tstg	-55 (0 + 150		
Thermal Resistance Junction to Case at DC Operation per Bridge	Rejc	1.16	k/W	
Thermal Resistance Case to Heatsink Mount- ing Surface, Smooth, Flat and Greased	Recs	0.2	K/ V V	

Rating and Characteristic Curves

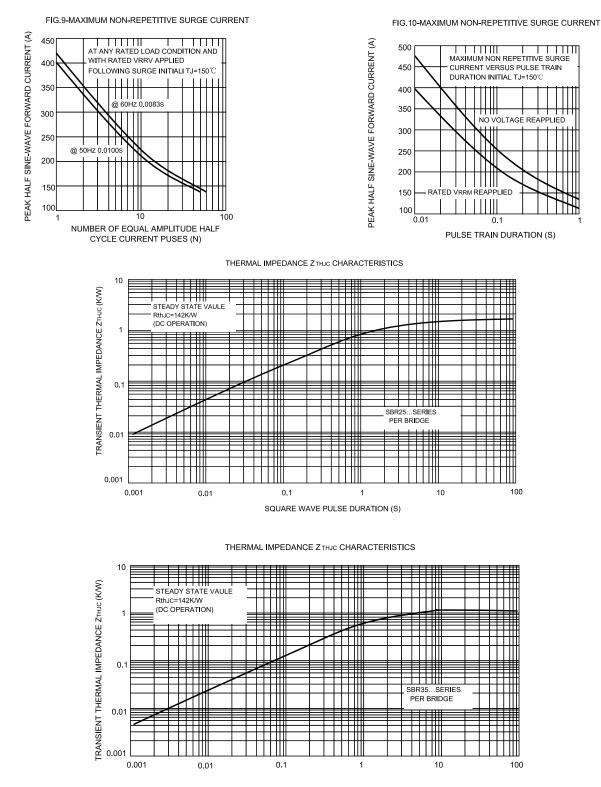








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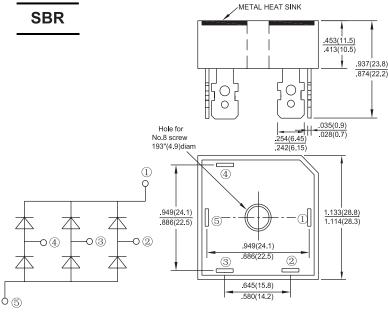


SQUARE WAVE PULSE DURATION (S)



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Dimension:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Three Phase Bridge 35A 50V Faston Lead SBR Package	SBR3500
Three Phase Bridge 35A 100V Faston Lead SBR Package	SBR3501
Three Phase Bridge 35A 200V Faston Lead SBR Package	SBR3502
Three Phase Bridge 35A 400V Faston Lead SBR Package	SBR3504
Three Phase Bridge 35A 600V Faston Lead SBR Package	SBR3506
Three Phase Bridge 35A 800V Faston Lead SBR Package	SBR3508
Three Phase Bridge 35A 1000V Faston Lead SBR Package	SBR3510
Three Phase Bridge 35A 1200V Faston Lead SBR Package	SBR3512
Three Phase Bridge 35A 1400V Faston Lead SBR Package	SBR3514
Three Phase Bridge 35A 1600V Faston Lead SBR Package	SBR3516

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