

## **SBR15A SERIES**

SILICON PASSIVATED THREE F	PHASE	REVERSE VOLTAGE - 50 to 1600 Volto								s				
BRIDGE RECTIFIERS			FC	RVV	ARD	CUR	REN		15 A	mpre	res			
FEATURES	SBR													
Diffused Junction														
Low Forward Voltage Drop	METAL HEAT SINK													
High Current Capability														
								.453	 3(11.5)					
Ideal for Printed Circuit Boards								.413	8(10.5)					
Case: Epoxy Case with Heat Sink Interally						ſ	JL							
Mounted in the Bridge Encapsulation														
●Terminals:Plated Leads Soiderable per	piderable per				μοι Γοιμ									
MIL-STD-202, Method 208									.035(	0.9)				
Polarity:As Marked on Body	Hole for .254(6.45)													
●Weight:20 grams(approx.)			193	"(4.9)dian	n		.2	242(6.15)						
Mounting Position:									<u>\</u>	4				
Bolt Down on Heatsink With Silicone Therma				Ī					$\left( \right)$					
Compound Between Bridge and Mounting Su	rface					$\backslash$								
for Maximum Heat Transfer Efficiency														
Mounting Torque:20 in Ibs. Max.	$\frac{.984(25.0)}{.937(23.8)}         \qquad \qquad ((+)) \qquad \qquad       \frac{1.133(28.8)}{1.114(28.3)}$													
•Marking: Type Number														
	.866(22.0)													
				I	.80	3(20.4)	I							
		Dimensions in inches and (milimeters)												
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS														
Rating at 25°C ambient temperature unless oth	erwise spe	cified.												
Single phase, half wave, 60Hz, resistive or indu	uctive load.	For ca	pacitiv	e load,	derate	currer	t by 20	)%						
VOLTAGE RATINGS														
CHARACTERISTICS	SYMBOL	-00	-01	-02	-04	-06	-08	-10	-12	-14	-16	UNIT		
Peak Repetitive Voltage	Vrrm													
Working Peak Reverse Voltage	VRWM	50	100	200	400	600	800	1000	1200	1400	1600	V		
DC Blocking Voltage	VR													
Peak Non_Repetitive Reverse Voltage	VRSM	75	150	275	500	725	900	1100	1300	1500	1700	V		
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V		
FORWARD CONDUCTION						0.0	D45							
	SYMBOL	L SBR15									UNIT			
	lo	15								А				
Rectilled Culterit @TC-100C														
8 3ms Single Half Sine-Wave	IFSM	300								Δ				
Super Imposed on Rated Load	II OM													
Forward Voltage (per element)														
@TJ=25°C,@IFM=40APK per single junction	VF	1.4								V				
Peak Reverse Current (per leg) @TJ=25°C	10								uA					
At Rated DC Blocking Voltage @TJ=125°C	IR	5.0							mA					
RMS Isolation Voltage from Case to Lead	Viso	2500							V					
THERMAL CHARACTERISTICS														
Operating Temperature Range	TJ	-55 to +150									°C			
Storage Temperature Range	Tstg	-55 to +150									°C			
Thermal Resistance Junction to Case at	Rejc	1.6									K/W			
DC Operation per Bridge														
Thermal Resistance Case to Heatsink	Recs 0.2							K/W						
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## RATING AND CHARACTERISTIC CURVES SBR15A SERIES



