SKBPC/SBR25A/35A SERIES

FEATURES

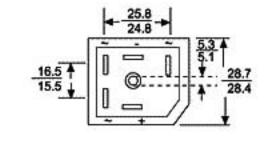
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

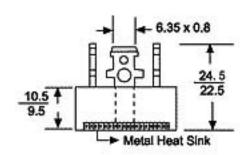
MECHANICAL DATA

- · Case: Epoxy Case with Heat Sink Interally Mounted in the Bridge Encapsulation
- Terminals:Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight:20 grams (apprex.)
- Mounting Position:

Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mouting Surface for Maximun Heat Transfer Efficiency

- Mounting Torque:20 in Ibs.Max.
- Marking:Type Number





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

Sing phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

VRRM

Recs

VOLTAGE RATINGS Type Number

Peak Reprtitive Reverse Voltage

Working Peak Reverse Voltage DC Blocking Voltage	VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	٧
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	٧
ECHWARD CONDUCTION		9.41-44.0	16 - 17 10 17	3-723	Y - 7 0.14	187.0.7 - Y				E-788	27.0047.700	44,-444

SKBPC/SBR25

-01

-00

-04

-06

0.2

-08

-10

SKBPC/SBR35

-16

UNITS

UNITS

KW

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Type	N	ımbe	r	

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Maximum Average Forward Rectified Current@Tc = 100°C	IF(AV)	25	35	A
Non-Repetitive Peak Forward Surge Current (No Voltage Reapplid t=8.3ms at 60Hz) (No Voltage Reapplid t=10ms at 50Hz) (100% VRRM Reapplid t=8.3ms at 60Hz) (100% VRRM Reapplid t=10ms at 50Hz)	IFSM	375 360 314 300	500 475 420 400	A
12t Rating for fusing		580	1030	

At Rated DC Blocking Voltage	
RMS Isolation Voltage from Cas	se to Lea

Thermal Resistance Case to Heatsink

Mounting Surface, Smooth, Flat and Greased

(No Voltage Reapplid t=0.3ms at 60Hz) (No Voltage Reapplid t=10ms at 50Hz) (100% VRRM Reapplid t=10ms at 50Hz) (100% VRRM Reapplid t=10ms at 50Hz)	l²t	635 410 450	1130 730 800	A ² S
Forward Voltage (per element) @TJ = 25°C,@IFM=40Apk per single junction	VF	1.26	1.19	v
Peak Reverse Current (per leg) @TJ =25°C At Rated DC Blocking Voltage @TJ =125°C	IR	1 5	uA mA	
RMS Isolation Voltage from Case to Lead	Viso	25	V	
THERMAL CHARACTERISTICS				
Operating Temperature Range	T)	-40 to	+ 125	°c

THERMAL CHARACTERISTICS							
Operating Temperature Range	T)	-40 to + 125					
Storage Temperature Range	Tsrg	-40 to +	°C				
Thermal Resistance Junction to Case at DC Operation per Bridge	Reuc	1.42	1.16	k/w			