SURFACE MOUNT BARRIER RECTIFIER

SRB620 THRU SRB6100

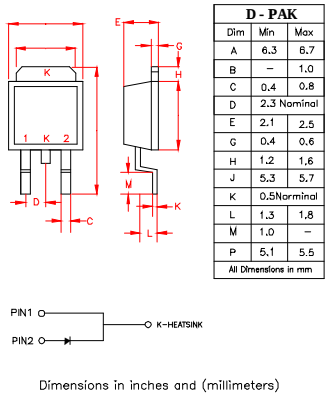
VOLTAGE RANGE **20 to 100 Volts**

CURRENT **3.0 Amperes**

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier ,majority carrier conduction
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capacity
- For use in low voltage high frequency inverters, Free wheeling ,and polarity protection applications
- High temperature soldering guaranteed: 260℃/10 seconds at terminals

D-PAK/TO-252AA



D - PAK		
Dim	Min	Max
A	6.3	6.7
B	–	1.0
C	0.4	0.8
D	2.3 Nominal	
E	2.1	2.5
G	0.4	0.6
H	1.2	1.6
J	5.3	5.7
K	0.5Norminal	
L	1.3	1.8
M	1.0	–
P	5.1	5.5
All Dimensions in mm		

Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: D-PAK/TO-252AA molded Plastic
- Terminals: Solder plated solderable per MIL-STD-750, METHOD 2026
- Polarity: Color band denotes cathode
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.015 ounce,0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified.
- Resistive or inductive load

	SYMBOLS	SRB620	SRB630	SRB640	SRB650	SRB660	SRB680	SRB6100	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at T_C=80℃	$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							Amps
Maximum Instantaneous Forward Voltage @ 6.0A(Note1)	V_F	0.55			0.75		0.85		Volts
Maximum DC Reverse Current (Note1) at rated DC Blocking Voltage T_A = 25℃	I_R	0.5							mA
Maximum DC Reverse Current (Note1) at rated DC Blocking Voltage T_A = 100℃	I_R	50							mA
Typical Thermal Resistance (Note 2)	$R_{\Theta JC}$	6.0							℃/W
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	80.0							℃/W
Typical Junction Capacitance (Note 3)	C_j	400							pF
Operating Junction Temperature	T_J	(-55 to +150)							℃
Storage Temperature Range	T_{STG}	(-55 to +150)							℃

Notes:

1. Pulse test with PW=300 μ sec,2% duty cycle
2. mounted on P.C .Board with 14mm2(.013mm thick) copper pad areas
3. Measured at f=1.0MHz and V_R=4V

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VOLTAGE RANGE	**20 to 100Volts**
CURRENT	**6.0 Ampere**

RATING AND CHRACTERISTIC CURVES SRB620 THRU SRB6100

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

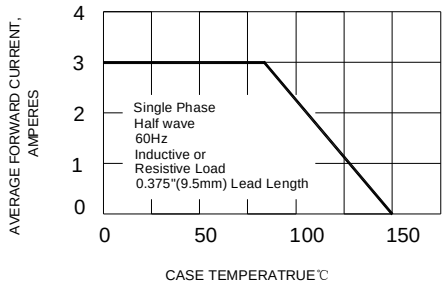


FIG.2-TYPICAL REVERSE CHARACTERISTICS

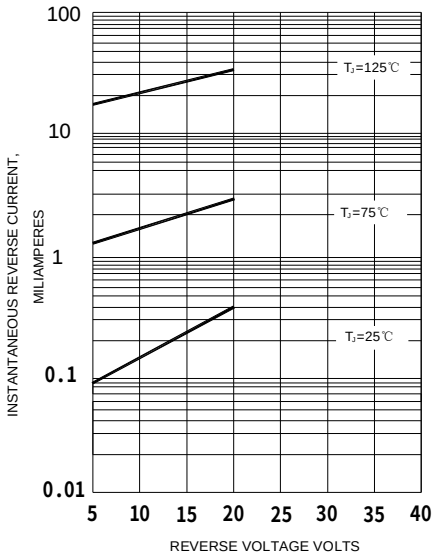


FIG.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

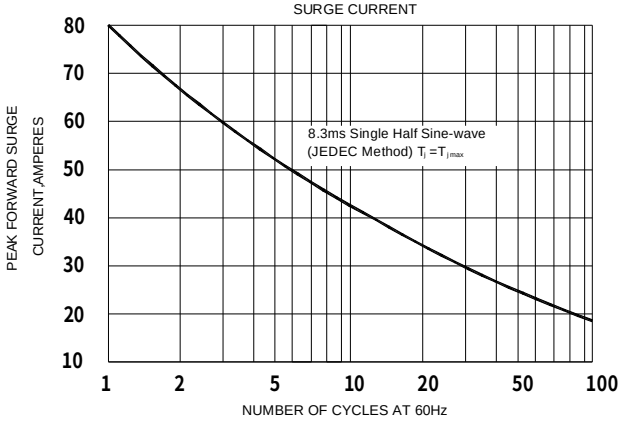


FIG.4-TYPICAL REVERSE CHARACTERISTICS

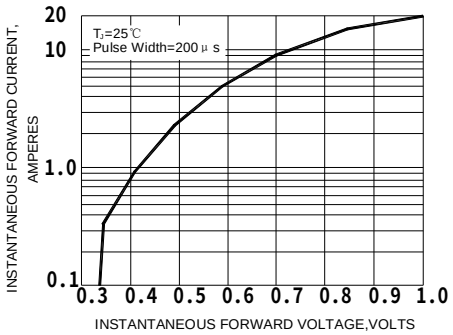
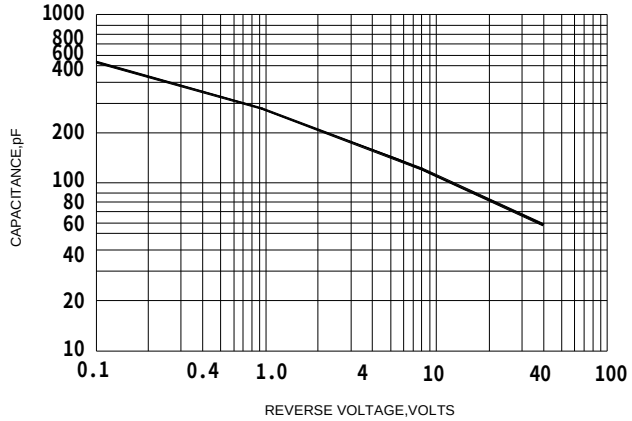


FIG.5-TYPICAL JUNCTION CAPACITANCE



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