

SURFACE MOUNT BARRIER RECTIFIER

SRB620 THRU SRB6100

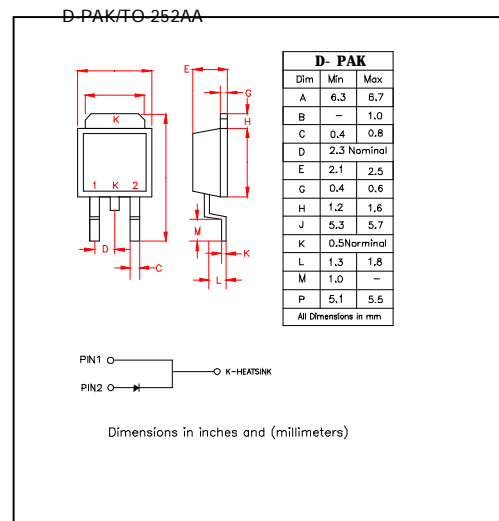
VOLTAGE RANGE 20 to 100 Volts
CURRENT 3.0 Amperes

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°C/10 seconds at terminals

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°C 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 $T_C=80^\circ C$	$I_{(AV)}$	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	$T_A = 25^\circ C$	I_R							mA
	$T_A = 100^\circ C$								
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	6.0							°C/W
	$R_{\theta JA}$								
Typical Junction Capacitance (Note 3)	C_j	400							pF
Operating Junction Temperature	T_J	(-55 to +150)							°C
Storage Temperature Range	T_{STG}	(-55 to +150)							°C

Notes:

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



SURFACE MOUNT BARRIER RECTIFIER

SRB620 THRU SRB6100

VOLTAGE RANGE	20 to 100Volts
CURRENT	6.0 Ampere

RATING AND CHARACTERISTIC CURVES SRB620 THRU SRB6100

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

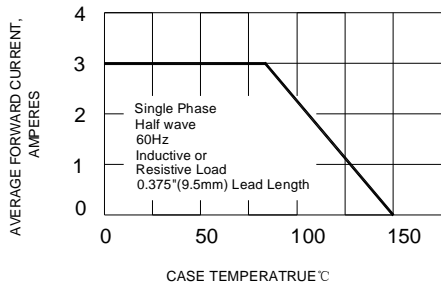


FIG.2-TYPICAL REVERSE CHARACTERISTICS

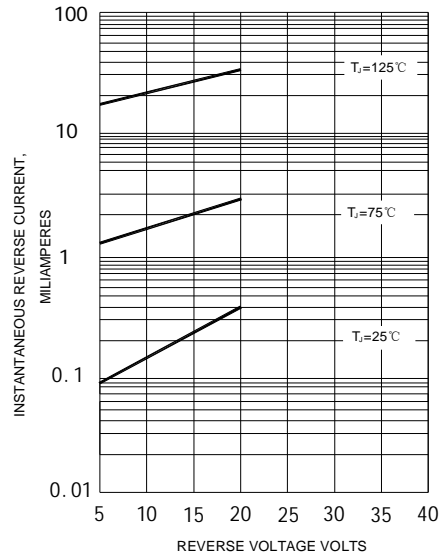


FIG.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

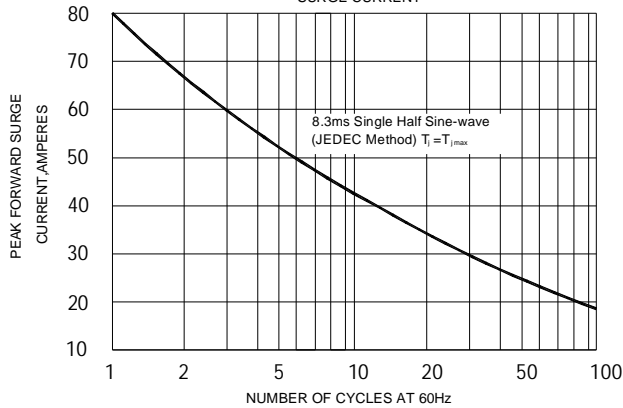


FIG.4-TYPICAL REVERSE CHARACTERISTICS

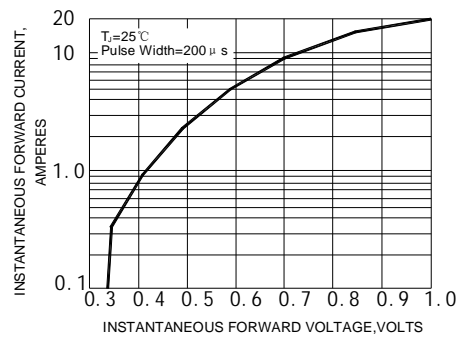


FIG.5-TYPICAL JUNCTION CAPACITANCE

