SCHOTTKY BARRIER RECTIFIER

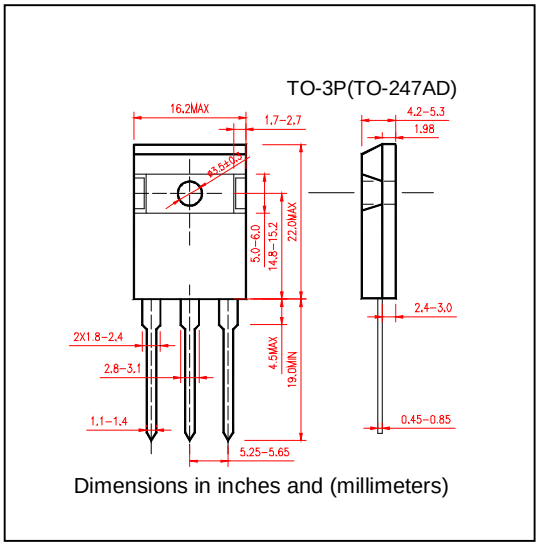
SR3020P THRU SR30100P

VOLTAGE RANGE **20 to 100 Volts**

CURRENT **30.0 Amperes**

FEATURES

- Plastic package has Underwriters Laboratory Flammability classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss,high efficiency
- Low forward voltage, high current capability
- High surge capacity
- For use in low voltage, high frequency inverters. Free wheeling, and polarity protection applications



MECHANICAL DATA

- Case: TO-3P molded Plastic
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Polarity: as marked
- Mounting position: Any
- Weight: 0.2ounce, 5.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SR 3020P	SR 3030P	SR 3035P	SR 3040P	SR 3045P	SR 3050P	SR 3060P	SR 3080P	SR30 100P	SR30 150P	SR30 200P	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	21	25	28	32	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current At Tc=110℃	$I_{(AV)}$	30.0											Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	250											Amps
Maximum Forward Voltage at 15.0A per element	V_F	0.65			0.72		0.75			0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element T_C = 25℃	I_R	1.0											mA
Maximum DC Reverse Current at rated DC Blocking Voltage per element T_C = 100℃	I_R	100											mA
Typical Junction Capacitance Range	C_J	500											pF
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.2											℃/W
Operating Storage Temperature Range	T_J T_{STG}	(-55 to +150)											℃

Notes:

1. Thermal Resistance Junction to Ambient
2. Measured at V_R=4v and f=1MHz

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CURRENT	**30.0 Ampere**

RATINGS AND CHARACTERISTIC CURVES SRF1620 THRU SRF16100

FIG.1-FORWARD CURRENT DERATING CURVE

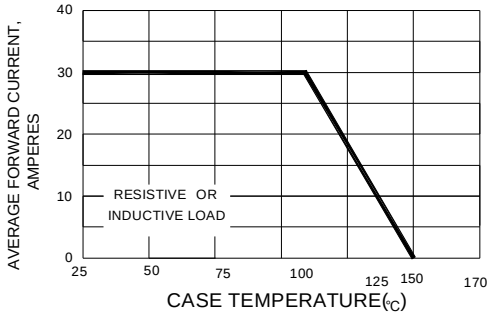


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

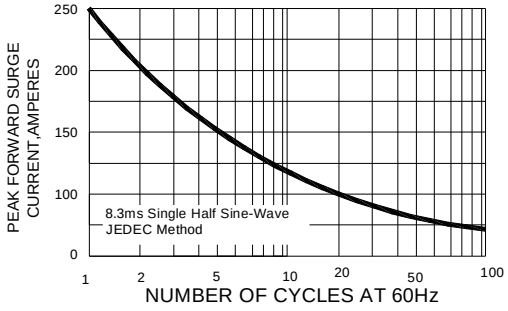


FIG.3-TYPICAL REVERSE CHARACTERISTICS

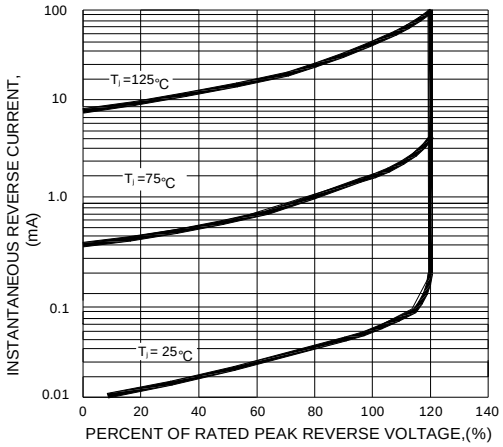


FIG.4-TYPICAL FORWARD CHARACTERISTICS

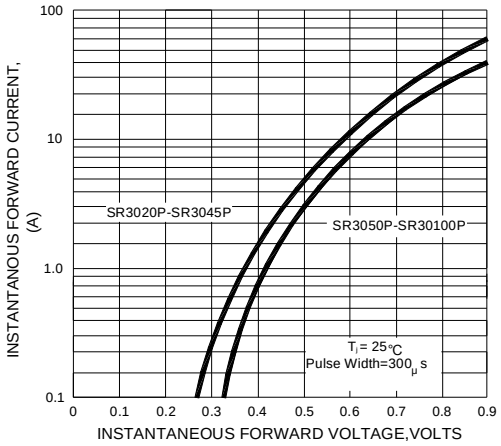


FIG.5-TYPICAL JUNCIONCAPACITANCE

