

SAMYANG ELECTRONICS

SRF620 --- SRF6200

SCHOTTKY BARRIER RECTIFIER

FEATURES

- \bigotimes Metal-semiconductor junction with guard ring
- \bigcirc Epitaxial construction
- $\bigotimes \mathsf{Low}$ forward voltage drop, low switching losses
- \bigcirc High surge capability
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- \bigcirc The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- - MIL-STD-750,Method 2026
- ♦ Weight: 0.08ounces, 2.24 grams
- ♦ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

		Symbols	SRF 620	SRF 630	SRF 640	SRF 650	SRF 660	SRF 680	SRF 6100	SRF 6150	SRF 6200	Units
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage		Vrms	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)		I(AV)	6.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated TL)		FSM	150.0									Amps
Maximum instantaneous forward voltage at 6.0 A(Note 1)		VF	0.60 0.75 0.85 0.90 0.9				0.95	Volts				
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T₄=25°C		0.2									mA
	T _A =100°C	R	50 25									
Typical junction capacitance(Note 3)		CJ	500 400						РF			
Typical thermal resistance (Note 2)		$R_{ heta}$ ja $R_{ heta}$ jl	25.0 8.0									°C/W
Operating junction temperature range		TJ	-65 to+150									°C
Storage temperature range		Tsig	-65 to+150									°C

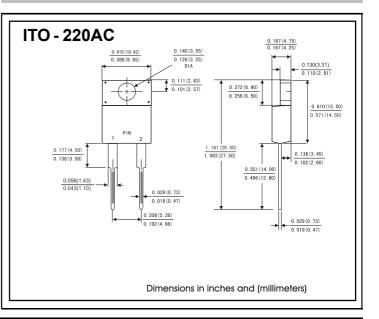
NOTE: 1. Pulse test: 300us pulse width, 1% duty cycle.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

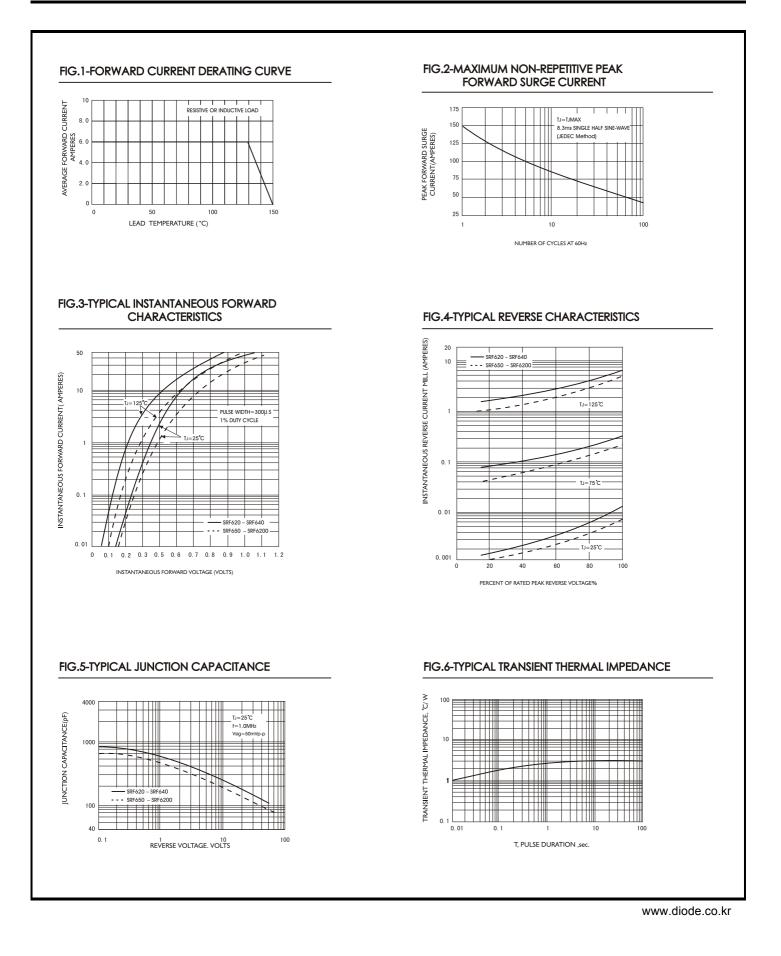
3. Thermal resistance junction to ambient

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VOLTAGE RANGE: 20 --- 200 V CURRENT: 6.0A



RATINGS AND CHARACTERISTIC CURVES



2.