



SCHOTTKY BARRIER RECTIFIER

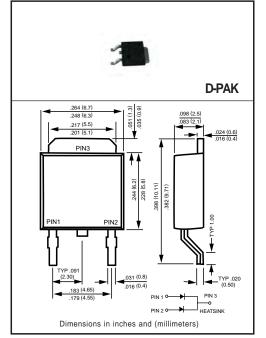
VOLTAGE 100 Volts CURRENT 6.0 Amperes

FEATURES

- * High reliability
- * Low switching loss * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any
- * Weight: 0.361 grams



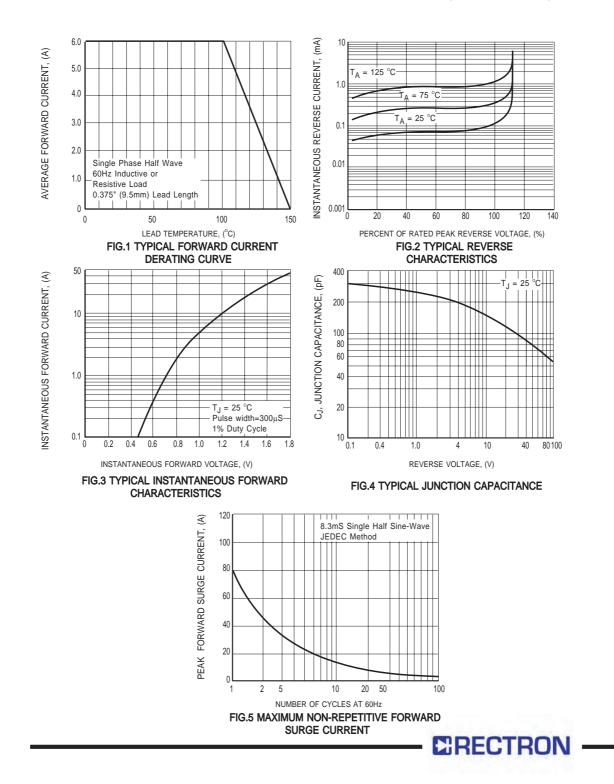
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

resistive or inductive load.

RATINGS	SYMBOL	SR6100CK	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	Volts
Maximum RMS Voltage	V _{RMS}	70	Volts
Maximum DC Blocking Voltage	V _{DC}	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I _O	6.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80	Amps
Typical Current Squared Time	I ² T	26.5	A ² S
Typical Thermal Resistance (Note 1)	R _{θJA}	40	°C/W
	R _{θJL}	10	°C/W
Typical Junction Capacitance (Note 3)	CJ	200	pF
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to + 150	°C
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless o	therwise n	oted)	
CHARACTERISTICS	SYMBOL	SR6100CK	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	VF	.85	Volts
Maximum Average Reverse Current @T _A = 25°C	I _R -	0.2	mA
at Rated DC Blocking Voltage @T _A = 100°C		2	mA

NOTES: 1. Thermal Resistance: At 9.5mm lead lengths, PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-08 REV:O



RATING AND CHARACTERISTICS CURVES (SR6100CK)

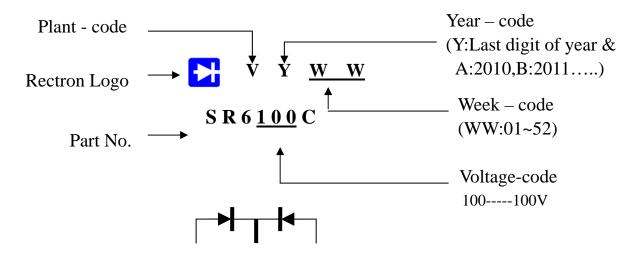


Attachment information about SR6100CK

1. Internal Circuit



2. Marking on the body



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

