



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 30 Volts CURRENT 10 Ampere

FEATURES

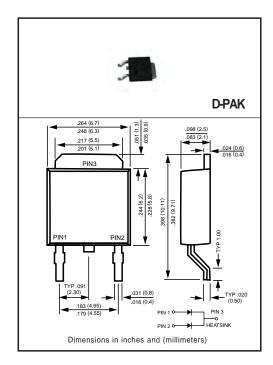
- * High reliability
- * Low switching loss
- * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any * Weight: 0.33 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SR1030CK	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	Volts
Maximum RMS Voltage	V _{RMS}	21	Volts
Maximum DC Blocking Voltage	V _{DC}	30	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Io	10	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	Amps
Typical Current Squared Time	I ² T	93.3	A ² S
Typical Thermal Resistance (Note 1)	R _{θJA}	60	°C/W
	Rejc	3	
Typical Junction Capacitance (Note 2)	CJ	200	pF
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to + 150	۰c

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

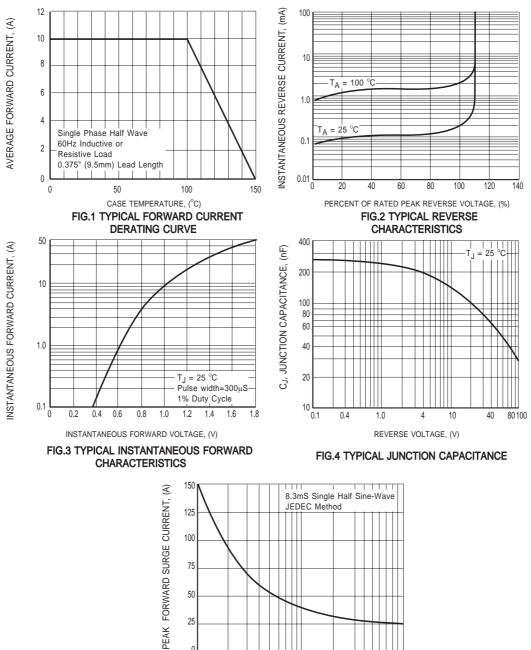
CHARACTERISTICS		SYMBOL	SR1030CK	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC		V _F	.85	Volts
Maximum Average Reverse Current	@T _A = 25°C	I-	0.2	mΑ
at Rated DC Blocking Voltage	@T _A = 100°C	IR	2	mΑ

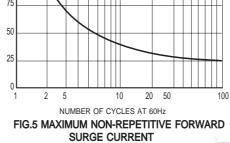
- NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.

 - 1. Inermal Resistance: Heat-sink case mounted or if 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. Suffix "R" for Reverse Polarity.
 5. Suffix "S" for D2-PAK Pkg.
 6. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05 REV: O

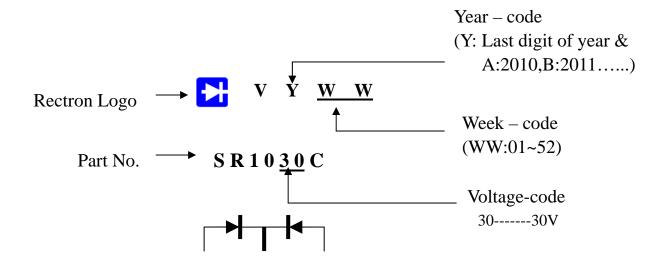
RATING AND CHARACTERISTICS CURVES (SR1030CK)





CIRECTRON

Marking Description



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