RECTRON
SEMICONDUCTOR
TECHNICAL SPECIFICATION

SR730CSDP

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 30 Volts CURRENT 7.0 Amperes

FEATURES

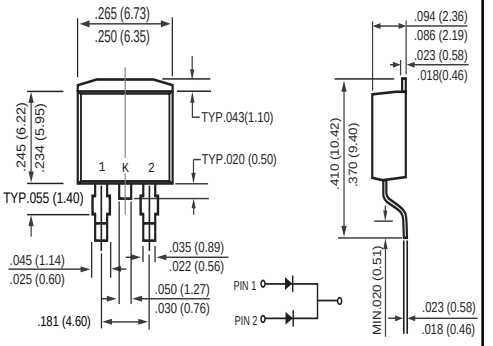
* Low switching noise
* Low forward voltage drop
* High current capability
* High switching capabitity
* High surge capability
* High reliability

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: Device has UL flammability classification 94V-O
* Lead: MIL-STD-202E method 208C guaranteed
* 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 current by 20%.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	SR730CSDP	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 .375" (9.5mm) lead length at T_L = 95°C	I_O	7.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80	Amps
Typical Junction Capacitance (Note 2)	C_J	250	pF
Storage and Operating Temperature Range	T_J, T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SR730CSDP	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC (Note 1)		V_F	0.45	Volts
Maximum Instantaneous Forward Voltage at 6.0A DC (Note 1)		V_F	0.52	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage (Note 1)	@T_A = 25°C	I_R	2.0	mAmps
	@T_A = 100°C		20	

NOTES : 1. Measured at Pulse Width 300 uS, Duty 2%.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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RATING AND CHARACTERISTIC CURVES (SR730CSDP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

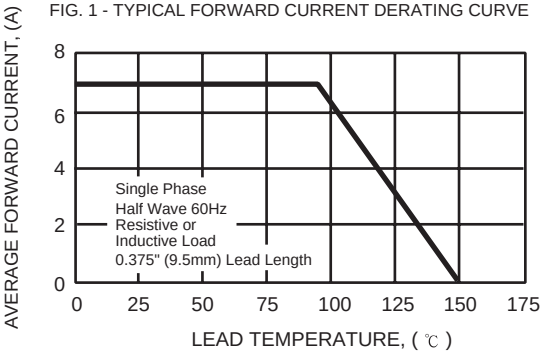


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

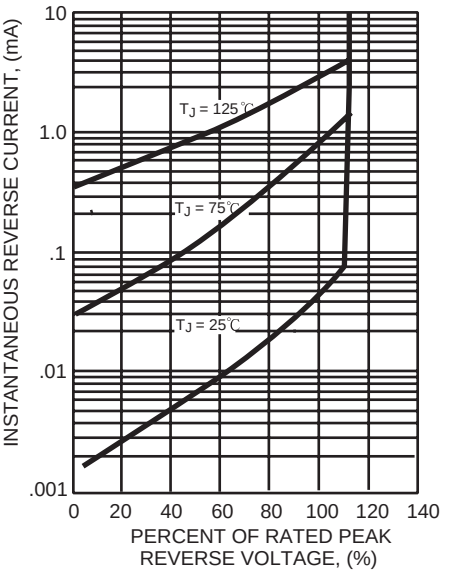


FIG. 3 - MAXIMUM NON-REPETITIVE
FORWARD SURGE CURRENT

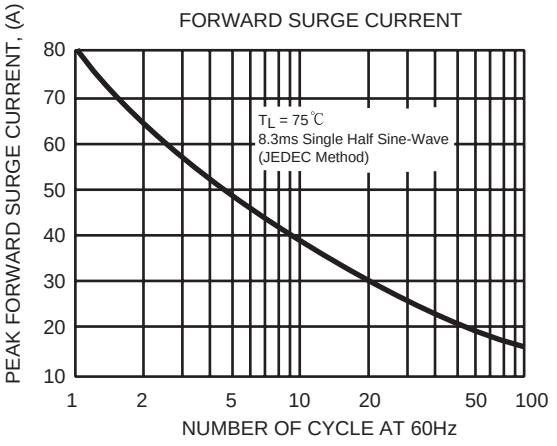


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

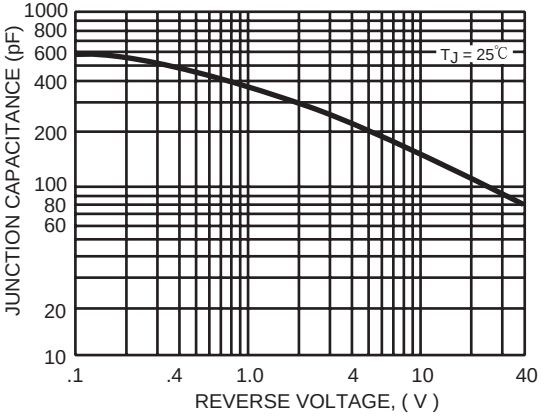


FIG. 5 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

