RECTRON
SEMICONDUCTOR
TECHNICAL SPECIFICATION

SR760CSDP

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volts CURRENT 7.0 Amperes

FEATURES

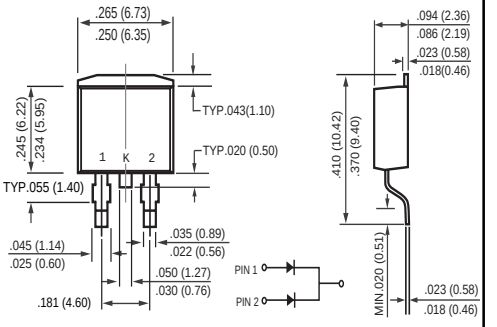
* Fast switching
* Low switching noise
* Low forward voltage drop
* High current capability
* High switching capability
* High reliability
* High surge capability

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: Device hasUL flammability classification 94V-O
* Lead: MIL-STD-202E method 208C guaranteed
* Metallurgically bonded construction
* 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	SR760CSDP	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	Volts
Maximum RMS Voltage	V_{RMS}	42	Volts
Maximum DC Blocking Voltage	V_{DC}	60	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	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 1)	C_J	200	pF
Operating Temperature Range	T_J	-55 to + 150	°C
Storage Temperature Range	T_{STG}	-55 to + 150	°C

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

CHARACTERISTICS		SYMBOL	SR760CSDP	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		V_F	.61	Volts
Maximum Instantaneous Forward Voltage at 6.0A DC		V_F	.76	Volts
Maximum Average Reverse Current	@T_A = 25°C	I_R	2.0	mAmps
at Rated DC Blocking Voltage	@T_A = 100°C		20	mAmps

Note: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
2 "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-6

RATING AND CHARACTERISTIC CURVES (SR760CSDP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

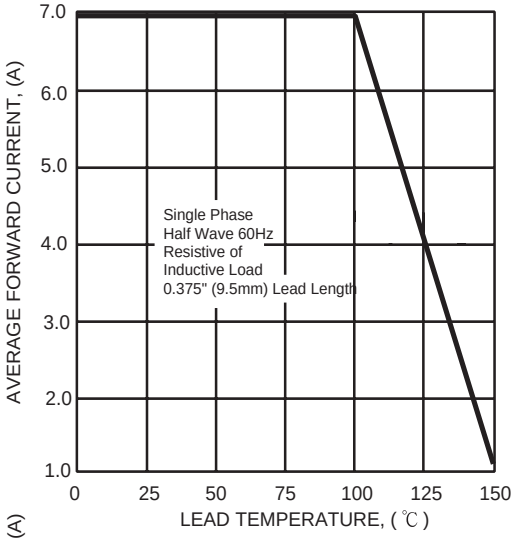


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

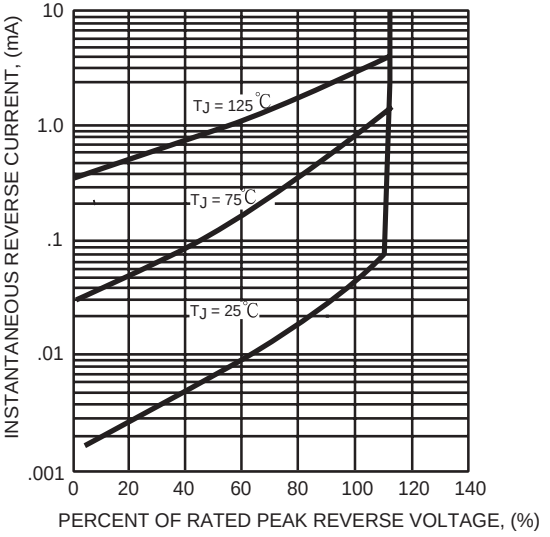


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

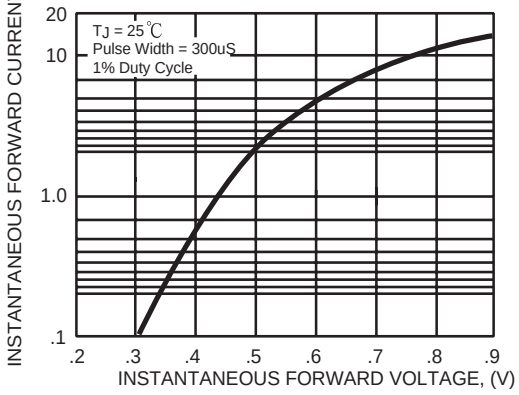


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

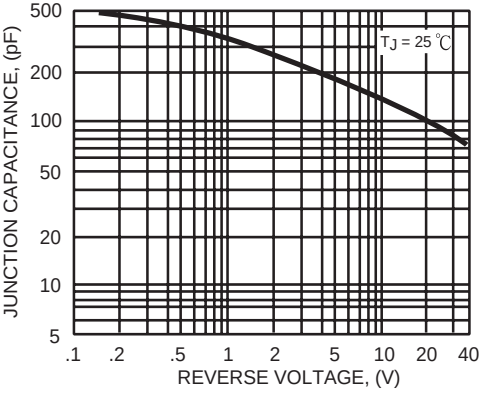


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT