

**SCHOTTKY BARRIER RECTIFIER**  
**VOLTAGE 30 Volts CURRENT 7.0 Amperes**

**FEATURES**

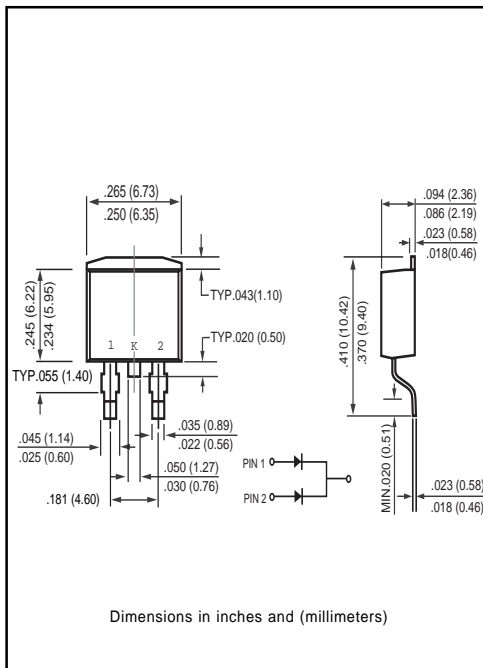
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High surge capability
- \* High reliability

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-0
- \* 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%.



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

RATINGS	SYMBOL	SR730CSDP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	Volts
Maximum RMS Voltage	VRMS	21	Volts
Maximum DC Blocking Voltage	Vbc	30	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at TL = 95°C	IO	7.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80	Amps
Typical Junction Capacitance (Note 2)	CJ	250	pF
Storage and Operating Temperature Range	TJ, TSTG	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	SR730CSDP	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC (Note 1)	VF	0.45	Volts
Maximum Instantaneous Forward Voltage at 6.0A DC (Note 1)	VF	0.52	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage (Note 1)	IR	@TA = 25°C	2.0
		@TA = 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)".

# RATING AND CHARACTERISTIC CURVES ( SR730CSDP )

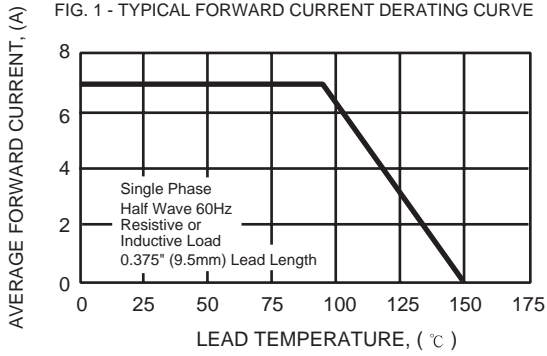


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

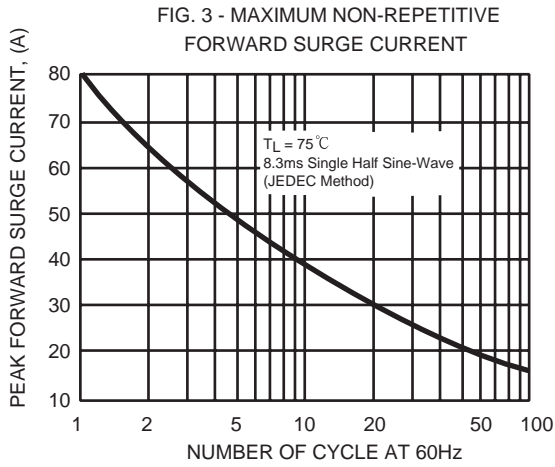
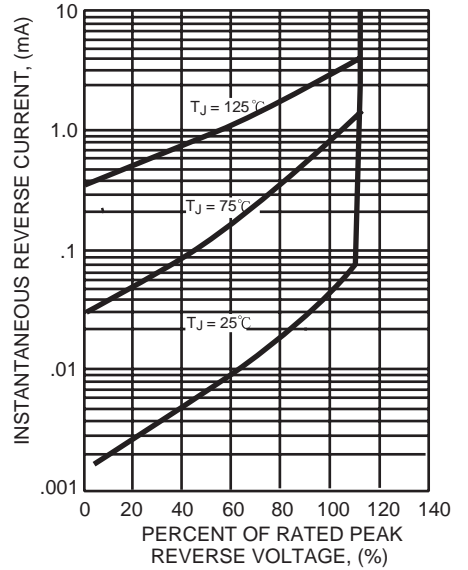


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

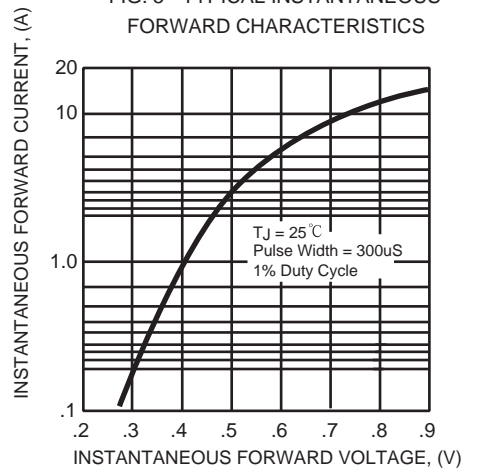


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

