

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 16 Amperes

FEATURES

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

MECHANICAL DATA

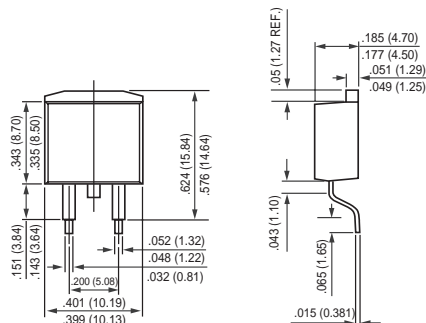
- * Case: To-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.2 grams

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%.



D2PAK



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	SR1620CS	SR1630CS	SR1635CS	SR1640CS	SR1645C	SR1650CS	SR1660CS	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	35	40	45	50	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	I _O	16							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150							Amps
Typical Thermal Resistance (Note 1)	R _{θJC}	3							°C/W
Typical Junction Capacitance (Note 3)	C _J	700					500		pF
Operating Temperature Range	T _J	-65 to + 125					-65 to + 150		°C
Storage Temperature Range	T _{STG}	-65 to + 150							°C

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

CHARACTERISTICS	SYMBOL	SR1620CS	SR1630CS	SR1635CS	SR1640CS	SR1645CS	SR1650CS	SR1660CS	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC	VF	.65					.75		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	IR	10							mAmps
		100							mAmps

NOTES : 1. Thermal Resistance Junction to Case.
2. Suffix "A" = Common Anode.
3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (SR1620CS THRU SR1660CS)

