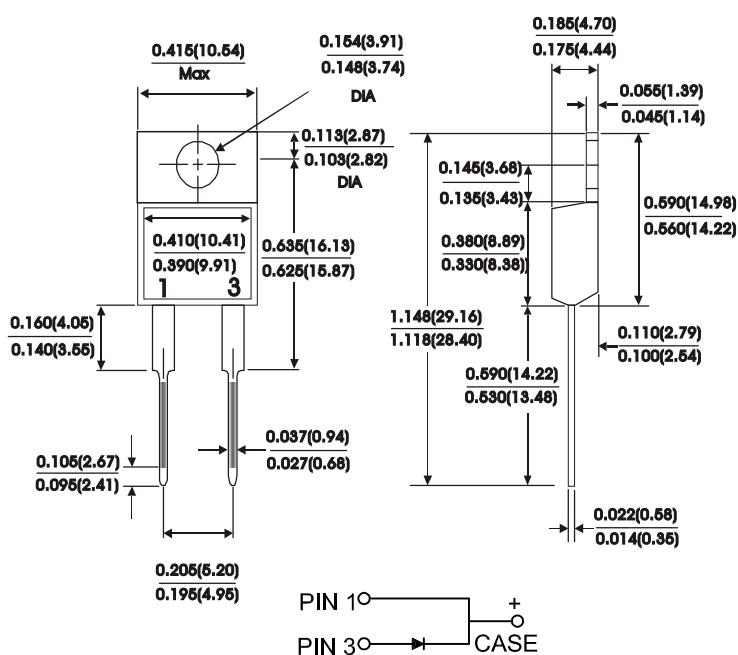


**FEATURES:**

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

**MECHANICAL DATA**

**Case :** JEDEC TO-220AC molded plastic  
**Terminals :** Leads solderable per MIL-STD-750 Method 2026  
**Polarity :** As marked  
**Mounting Position :** Any  
**Mounting Torque :** 5 In - lbs.max  
**Weight :** 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 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%.

Characteristic	Symbol	SR2020	SR2030	SR2035	SR2040	SR2045	SR2050	SR2060	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at T <sub>c</sub> =125°C	I <sub>O</sub>					20			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>					300			Amps
Maximum instantaneous forward voltage (NOTE 2)	I <sub>F</sub> = 20A	V <sub>F</sub>		0.65			0.72		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2)	T <sub>c</sub> =25°C T <sub>c</sub> =125°C	I <sub>R</sub>			1.0	100			mA
Typical thermal resistance (NOTE 1)	R <sub>th</sub> -JC			2.0					°C/W
Operating temperature range	T <sub>J</sub>			-65 to +150					°C
Storage temperature range	T <sub>Stg</sub>			-65 to +175					°C

## NOTES:

(1) Thermal resistance from junction to case

(2) Pulse test: 300 us pulse width, 1% duty cycle

# RATINGS AND CHARACTERISTIC CURVES SR2020 THRU SR2060

