

## SILICON RECTIFIER

Voltage Range : 50 to 1000V

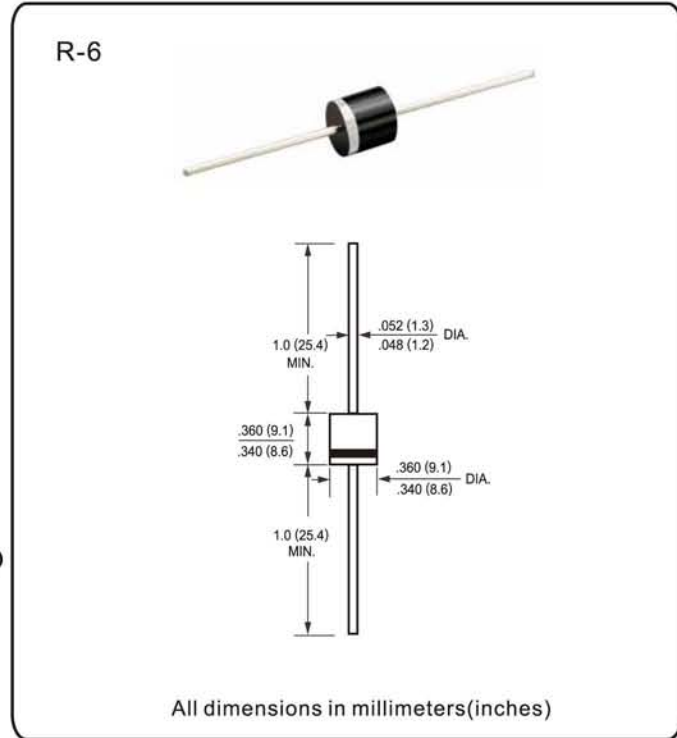
Current : 10 Amperes

### Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability
- High surge current capability

### Mechanical data

- Case: Molded plastic
- Epoxy: Device has UL flammability classification 94V-0
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting position: Any
- Weight: 2.08 grams



## Maximum ratings and electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase , half wave , 60Hz , resistive or inductive load.

For capacitive load , derate current by 20%.

Maximum Ratings (At TA=25°C unless otherwise noted)

Symbol	Ratings	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Units
V <sub>RRM</sub>	Max. recurrent peak reverse voltage	50	100	200	400	600	800	1000	V
V <sub>RMS</sub>	Max. RMS voltage	35	70	140	280	420	560	700	V
V <sub>DC</sub>	Max. DC blocking voltage	50	100	200	400	600	800	1000	V
I <sub>O</sub>	Max. average forward rectified current at T <sub>A</sub> =50°C	10							A
I <sub>FSM</sub>	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	400							A
C <sub>J</sub>	Typical junction capacitance (Note)	125							pF
R <sub>th(JA)</sub>	Typical thermal resistance	8							°C/W
T <sub>j</sub>	Operating temperature range	-65 to +150							°C
T <sub>stg</sub>	Storage temperature range	-65 to +150							°C

Electrical characteristics (At TA=25°C unless otherwise noted)

Symbol	Ratings	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Units
V <sub>F</sub>	Max. instantaneous forward voltage at 10A DC	1.1							V
I <sub>R</sub>	Max. DC reverse current at rated DC blocking voltage	@TA=25°C							μA
		@TA=100°C							
	Max. Full load reverse current average full cycle .375° (9.5mm)lead length at TL=75°C	50							μA

Notes: Measured at 1 MHz and applied reverse voltage of 4.0 volts

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## Rating and characteristic curves(10A05 Thur 10A10)

