

SILICON RECTIFIER

Voltage Range : 50 to 1000V

Current : 10 Amperes

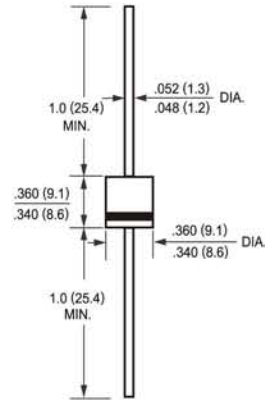
Features

- 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-O
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting position: Any
- Weight: 2.08 grams

R-6



All dimensions in millimeters(inches)

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
VRRM	Max. recurrent peak reverse voltage	50	100	200	400	600	800	1000	V
VRMS	Max. RMS voltage	35	70	140	280	420	560	700	V
VDC	Max. DC blocking voltage	50	100	200	400	600	800	1000	V
Io	Max. average forward rectified current at TA=50°C	10							A
IFSM	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	400							A
CJ	Typical junction capacitance (Note)	125							pF
Rth(JA)	Typical thermal resistance	8							°C/W
Tj	Operating temperature range	-65 to +150							°C
Tstg	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 _F	Max. instantaneous forward voltage at 10A DC		1.1							V
I _R	Max. DC reverse current	@TA=25°C	10							μA
	at rated DC blocking voltage	@TA=100°C	100							
	Max. Full load reverse current average full cycle .375° (9.5mm)lead lenght 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)

