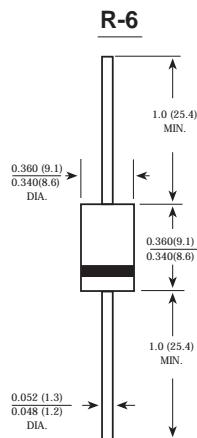




# 10A05 thru 10A10

## 10.0 Amps. General Purpose Plastic Rectifiers

### Voltage Range 50 to 1000 Volts Forward Current 10.0 Amperes



Dimensions in inches and (millimeters)

#### FEATURES

- ◆ Low cost
- ◆ Diffused junction
- ◆ Low forward voltage drop
- ◆ Low reverse leakage current
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0

#### MECHANICAL DATA

- ◆ Case : JEDEC R-6 molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.074 ounce, 2.1 grams
- ◆ 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%

Parameter	Symbols	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @ $T_A = 50^\circ C$	$I_{F(AV)}$	10.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	600.0						Amps	
Maximum forward Voltage at 10A DC	$V_F$	1.0						Volts	
Maximum DC reverse current @ $T_j = 25^\circ C$ @ $T_j = 100^\circ C$	$I_R$	10.0 100						uA	
Typical junction capacitance (Note 1)	$C_J$	150						pF	
Typical thermal resistance (Note 2)	$R_{\theta JA}$	10.0						°C/W	
Operating temperature range	$T_J$	-55 to +125						°C	
Storage temperature range	$T_{STG}$	-55 to +150						°C	

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient

## RATINGS AND CHARACTERISTIC CURVES 10A05 THRU 10A10

