



# 10A05 thru 10A10

General Purpose Plastic Rectifiers  
Reverse Voltage 50 to 1000 Volts Forward Current 10.0 Amperes

## Features

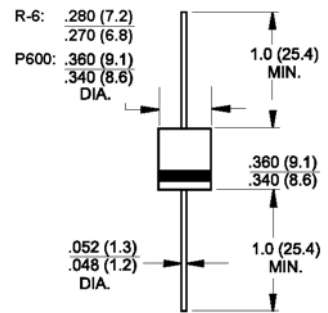
- ◆ Low cost
- ◆ Diffused junction
- ◆ Low forward voltage drop
- ◆ Low reverse leakage current
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0
- ◆  $T_J$  is 150°C (Max.) and  $T_{STG}$  is 175°C (Max.) with PI glue



R-6 or P600

## Mechanical Data

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



Dimensions in inches and (millimeters)

## 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 @ $T_A=50^\circ\text{C}$	$I_{F(AV)}$	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 at rated DC blocking voltage @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	$I_R$	10.0 100							$\mu\text{A}$
Typical junction capacitance (Note 1)	$C_J$	150							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	10.0							$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	-55 to +125							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

- 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

( $T_a = 25^\circ\text{C}$  unless otherwise noted)

FIG. 1 - FORWARD CURRENT DERATING CURVE

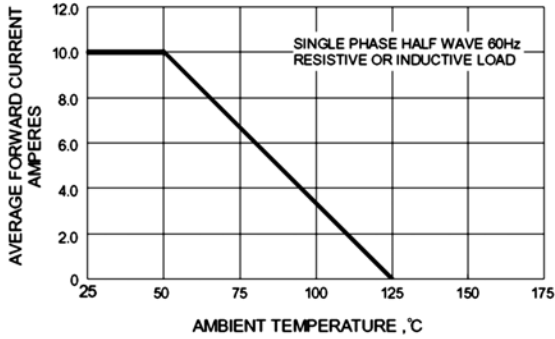


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

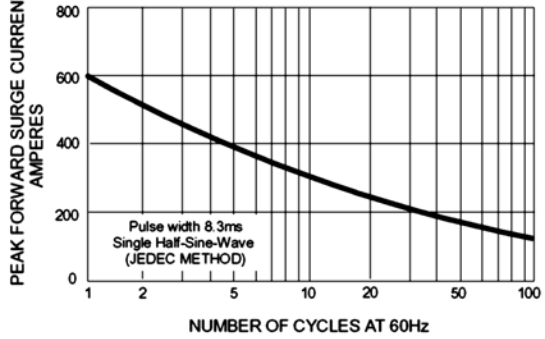


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

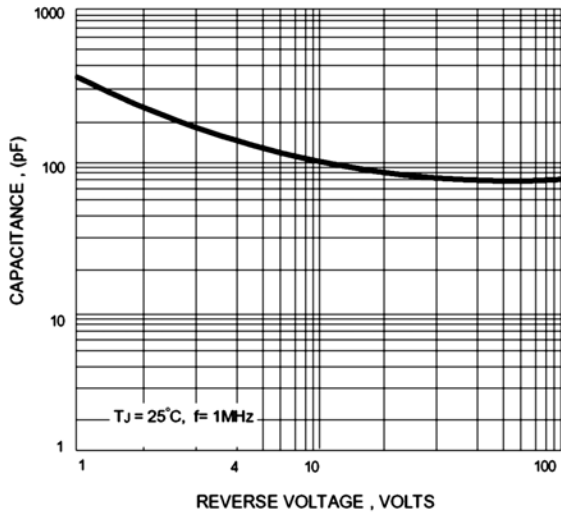
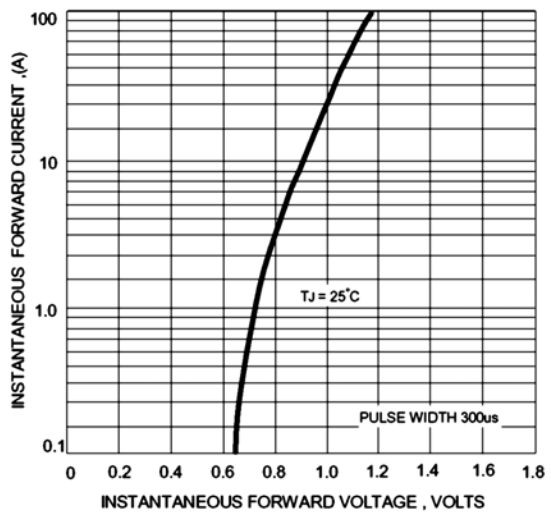


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS



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