

## General Purpose Rectifiers 10A05 THRU 10A10

VOLTAGE RANGE 50 to 1000 Volts  
Forward Current 10 Amperes

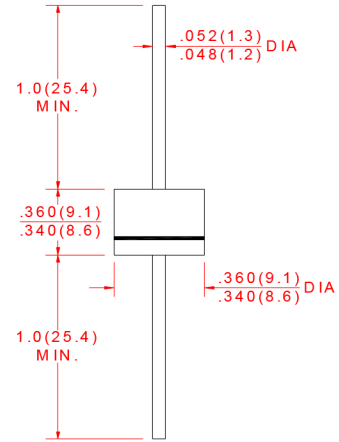
### FEATURES

- Low cost construction
- Low forward voltage drop.
- Low reverse leakage.
- High forward surge current capability.
- High temperature soldering guaranteed:  
250°C/10 second, at terminals

### MECHANICAL DATA

- Case: transfer molded plastic
- Polarity: Indicated by cathode band
- Mounting position: Any
- Weight: 0.07ounces, 2.0 grams

### R - 6



Dimensions in inches and (millimeters)

### 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%.

	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 @ $T_L=75^\circ\text{C}$	$I_{(AV)}$	10.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	400							Amps
Maximum Instantaneous Forward Voltage Drop per bridge element at 10A	$V_F$	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_J=25^\circ\text{C}$	10							$\mu\text{A}$
	$T_J=100^\circ\text{C}$	100							
Typical Junction Capacitance (Note 2)	$C_J$	200							pF
Operating and Storage Temperature Range	$T_J$	-65 to +175							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +175							$^\circ\text{C}$

#### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES 10A05 THRU 10A10

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

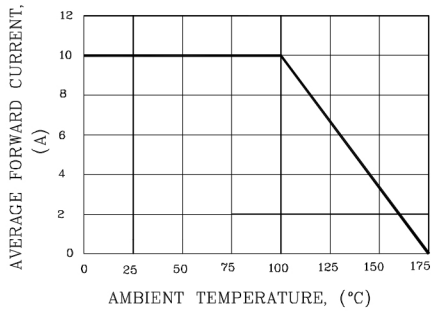


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

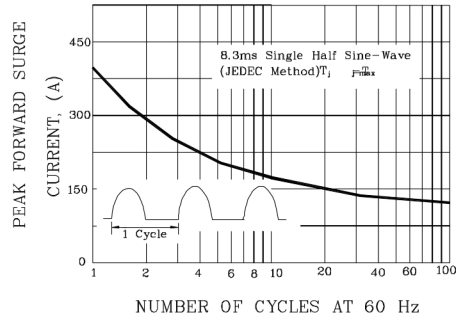


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

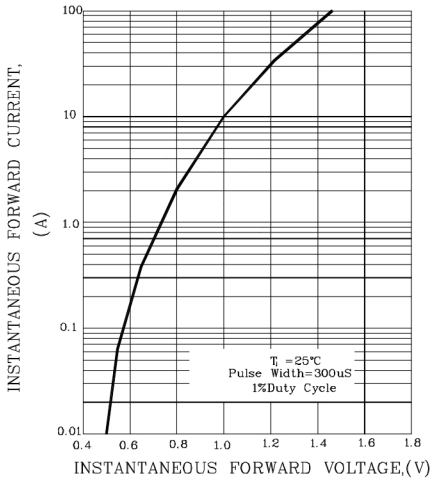


FIG.4-TYPICAL REVERSE CHARACTERISTICS

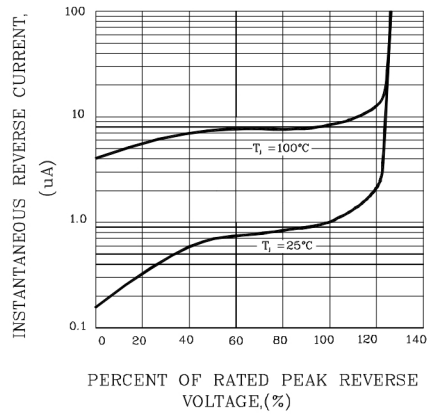


FIG.5-TYPICAL JUNCTION CAPACITANCE

