



# 5A05 THRU 5A10

## TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 5.0A

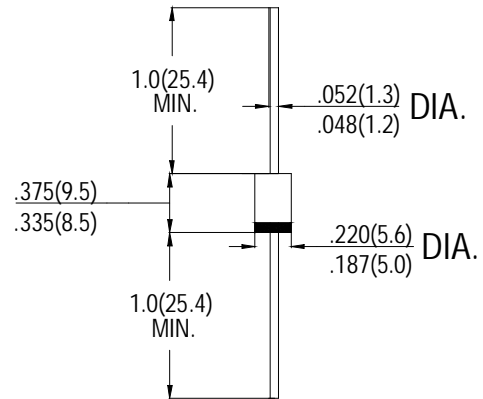
### FEATURES

- High reliability
- Low leakage
- Low forward voltage drop
- High current capability

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 1.18 grams

### DO-27



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%.

	SYMBOL	5A05	5A1	5A2	5A4	5A6	5A8	5A10	units	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	v	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum Average Forward rectified Current .375"(9.5mm) lead length at $T_L=75^\circ C$	$I_o$	5.0							A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	150							A	
Maximum Instantaneous forward Voltage at 5.0A DC	$V_F$	1.0							v	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	@ $T_A=25^\circ C$	10.0							$\mu A$
		@ $T_A=100^\circ C$	500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L=75^\circ C$		30								
Typical Junction Capacitance (Note)	$C_J$	40							pF	
Typical Thermal Resistance	$R_{\theta JA}$	30							$^\circ C/W$	

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