

# **8A05 - 8A10** AXIAL LEADED SILICON RECTIFIER DIODES

## VOLTAGE RANGE: 50 - 1000V

CURRENT: 8.0 A

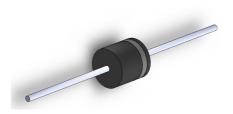
### Features

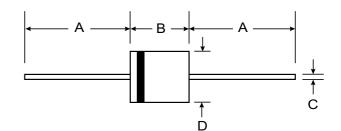
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

#### **Mechanical Data**

- Case: R-6,
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- Weight: 2.1 grams (approx.)







R-6							
Dim	Min	Max					
Α	25.4	_					
В	8.6	9.1					
С	1.2	1.3					
All Dimensions in mm							

#### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	8A05	8A1	8A2	8A4	8A6	8A8	8A10	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 50^{\circ}C$	lo	8.0						A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	600						А	
Forward Voltage @I <sub>F</sub> = 8.0A	Vfm	1.0						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 100						μΑ	
Typical Junction Capacitance (Note 2)	Cj		1	50			80		pF
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJA	10					°C/W		
Operating Temperature Range	Tj	-50 to +150						°C	
Storage Temperature Range	Тѕтс	-50 to +150						°C	

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



