

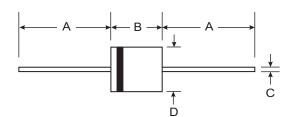
**10A RECTIFIER** 

### **Features**

- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 600A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 3)

# **Mechanical Data**

- Case: R-6
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Plated Leads Solderable per MIL-STD-202, Method 208 @3
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: 2.1 grams (approximate)



R-6					
Dim	Min	Max			
Α	25.40	_			
В	8.60	9.10			
С	1.20	1.30			
D	8.60	9.10			
All Dimensions in mm					

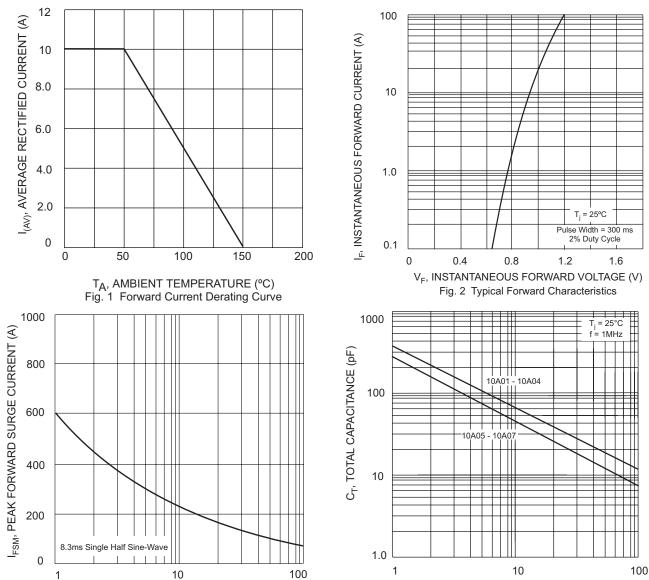
#### **Maximum Ratings and Electrical Characteristics** @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	10A01	10A02	10A03	10A04	10A05	10A06	10A07	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T <sub>A</sub> = 50°0	lo	10					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		600					Α		
Forward Voltage @ I <sub>F</sub> = 10	A V <sub>FM</sub>	1.0				V			
10Peak Reverse Current @TA = 25° at Rated DC Blocking Voltage @ TA = 100°		10 100				μΑ			
Typical Total Capacitance (Note 2)	C <sub>T</sub>		15	50			80		pF
Typical Thermal Resistance Junction to Ambient		10					°C/W		
Operating and Storage Temperature Range		-65 to +150					°C		

- Notes: 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 DC.
  - 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.





NUMBER OF CYCLES AT 60 Hz
Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

Ordering Information (Note 4)

Device	Packaging	Shipping
10A01-T	R-6	500/Tape & Reel, 13-inch
10A02-T	R-6	500/Tape & Reel, 13-inch
10A03-T	R-6	500/Tape & Reel, 13-inch
10A04-T	R-6	500/Tape & Reel, 13-inch
10A05-T	R-6	500/Tape & Reel, 13-inch
10A06-T	R-6	500/Tape & Reel, 13-inch
10A07-T	R-6	500/Tape & Reel, 13-inch

V<sub>R</sub>, REVERSE VOLTAGE (V)

Fig. 4 Typical Total Capacitance

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf



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