

PART OBSOLETE - CONTACT US

10A01 - 10A07

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R-6

Min

25.40

8.60

1.20

8.60

All Dimensions in mm

Max

9.10

1.30

9.1⁰

Dim

Α

В

С

D

Features

- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 600A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Notes 1 & 2)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>

Mechanical Data

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

Maximum Ratings and Electrical Characteristics @TA = +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		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 3)	T _A = +50°C	lo	10					А		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		IFSM	600					А		
Forward Voltage	I _F = 10A	Vfm	1.0					V		
10 Peak Reverse Current at Rated DC Blocking Voltage	T _A = +25°C T _A = +100°C	Irm	10 100					μA		
Typical Total Capacitance (Note 4)		Ст 150		80		pF				
Typical Thermal Resistance Junction to Ambient		Reja	10					°C/W		
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150					°C		

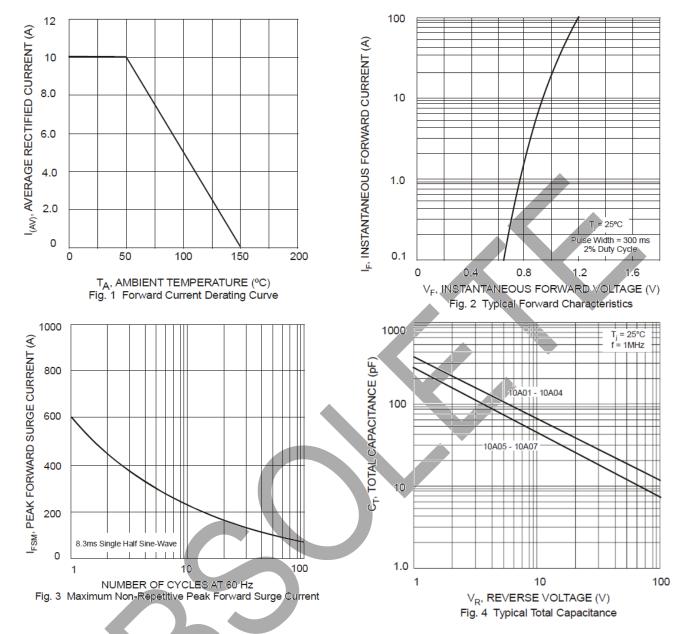
Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied. 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and

- Lead-free.
- 3. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
- 4. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



10A01 - 10A07



Ordering Information (Note 5)

	Package	Packing			
Part Number	Package	Qty.	Carrier		
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		

Note: 5. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.



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