

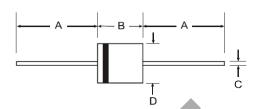


10A01 - 10A07

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 (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 contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/



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 (e3)

Polarity: Cathode Band

Ordering Information: See Next Page

Marking: Type Number

• Weight: 2.1 grams (Approximate)

R-6					
Dim	Min	Max			
Α	25.40	1			
В	8.60	9.10			
C	1.20	1.30			
D	8.60	9.10			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA = +25°C, unless otherwise specified.

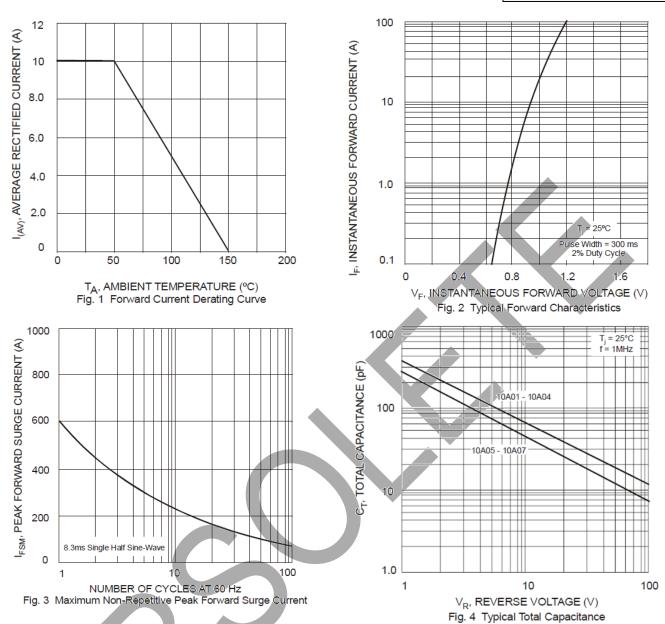
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

			1000							
Characteristic		Symbol	10A01	10A02	10A03	10A04	10A05	10A06	10A07	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _R (RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 3)	T _A = +50°C	О				10				Α
Non-Repetitive Peak Forward Surge Currer single half sine-wave superimposed on rate		IFSM				600				Α
Forward Voltage	I _F = 10A	V_{FM}				1.0				V
10 Peak Reverse Current at Rated DC Blocking Voltage	T _A = +25°C T _A = +100°C	I _{RM}				10 100				μΑ
Typical Total Capacitance (Note 4)		Ст		1:	50			80		pF
Typical Thermal Resistance Junction to Ambient		Reja	10					°C/W		
Operating and Storage Temperature Range		Tj, Tstg	-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.





Ordering Information (Note 5)

Part Number	Package	Packing			
		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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