

DISCONTINUED

<u>2A01 - 2A07</u>

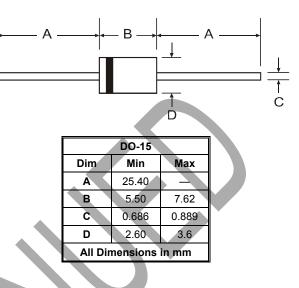
2.0A RECTIFIER

Features

- **Diffused Junction**
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 70A Peak
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: DO-15 ٠
- Case Material: Molded Plastic. UL Flammability Classification • Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Bright Tin. Solderable per MIL-STD-202, Method 208 @3
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.4 grams (approximate)



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

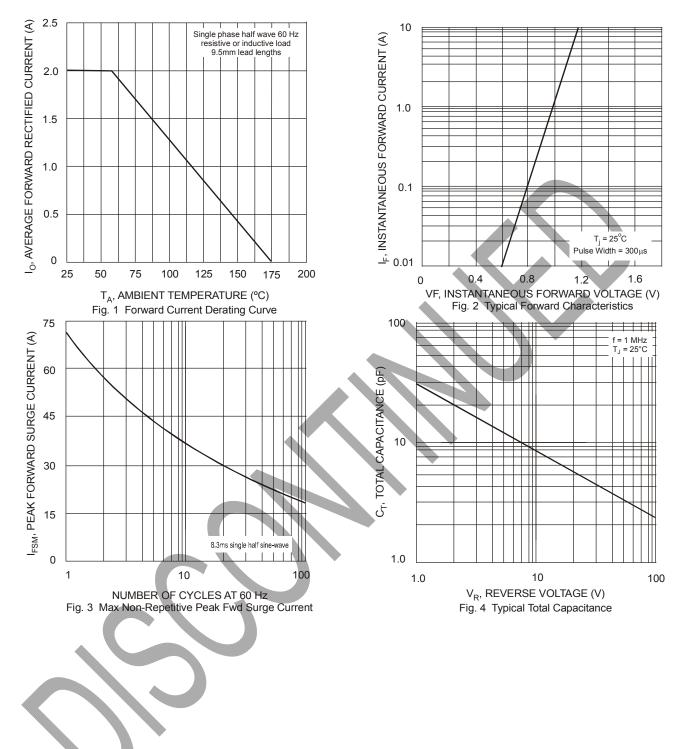
Single phase, half wave, 60Hz, resistive or induc For capacitive load, derate current by 20%.	ctive load.									
Characteristic		Symbol	2A01	2A02	2A03	2A04	2A05	2A06	2A07	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	T _A = 55°C	Io				2.0				А
Non-Repetitive Peak Forward Surge Current 8.3 single half sine-wave superimposed on rated loa		I _{FSM}				70				А
Forward Voltage	0 I _F = 2.0A	VFM				1.1				V
	$A = 25^{\circ}C$ $A = 100^{\circ}C$	I _{RM}				5.0 50				μA
I ² t Rating for Fusing (t < 8.3ms)		l ² t	17.5					A ² s		
Typical Total Capacitance (Note 2)		CT				15				pF
Typical Thermal Resistance Junction to Ambient (Note 1)		$R_{ extsf{ heta}JA}$	60				°C/W			
Operating and Storage Temperature Range		$T_{j,} T_{STG}$	-65 to +150				°C			

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

Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
RoHS revision 13.2.2003. High temperature solder exemption applied, see *EU Directive Annex Notes 5 and 7*.



DISCONTINUED





Ordering Information (Note 4)

Device	Packaging	Shipping			
2A01-T	DO-15	4K/Tape & Reel, 13-inch			
2A02-T	DO-15	4K/Tape & Reel, 13-inch			
2A03-T	DO-15	4K/Tape & Reel, 13-inch			
2A04-T	DO-15	4K/Tape & Reel, 13-inch			
2A05-T	DO-15	4K/Tape & Reel, 13-inch			
2A06-T	DO-15	4K/Tape & Reel, 13-inch			
2A07-T	DO-15	4K/Tape & Reel, 13-inch			

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

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