

P300A - P300M

AXIAL LEADED SILICON RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 3.0 A

Features

 High Current Capability and Low Forward Voltage Drop

Low Reverse Leakage Current

Plastic Material: UL Flammability

Classification Rating 94V-0

Mechanical Data

Case: DO-201AD

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

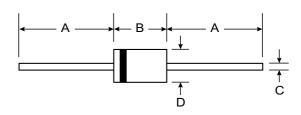
Polarity: Cathode Band

Mounting Position: AnyMarking: Type Number

• Weight: 1.1 grams (approx.)







DO-201AD							
Dim	Min	Max					
Α	25.40	_					
В	7.20	9.50					
С	1.20	1.30					
D	4.80	5.30					
All Dimensions in mm							

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

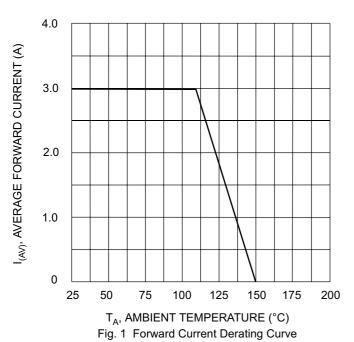
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

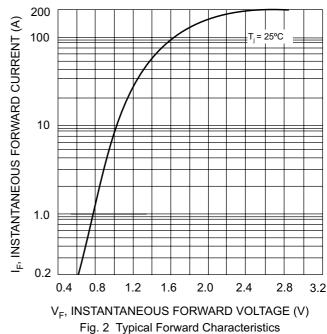
Characteristic	Symbol	P300A	P300B	P300D	P300G	P300J	P300K	P300M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _A = 105°C (Note 1)	Io	3.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		200						Α	
Forward Voltage @ I _F = 3.0A	V _{FM}	1.0					V		
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	I _{RM}	10 100					μА		
Typical Junction Capacitance (Note 2)	Cj	50 25				pF			
Typical Thermal Resistance Junction to Ambient		15						K/W	
Operating and Storage Temperature Range		-65 to +150						°C	

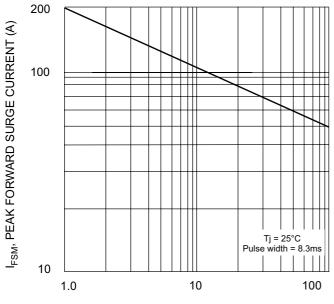
Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

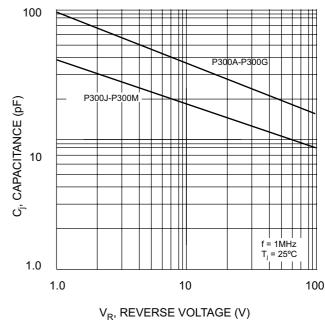
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.











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

Fig. 4 Typical Junction Capacitance