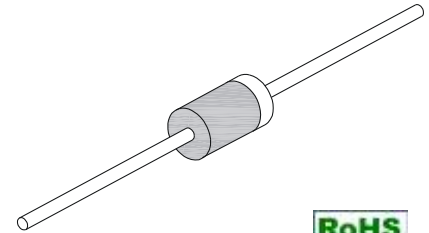


3.0A Standard Rectifier

Features

- Low Forward Voltage Drop
- Low Leakage Current, I_r Less than $0.1\mu A$
- High Current Capability
- High Forward Surge Current Capability
- High Temperature Soldering Guaranteed $260^\circ C/10$ seconds
/.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliant



DO-201AD



Mechanical Data

Case:	DO-201AD, Molded Plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.042 ounce, 1.2 gram

Maximum Ratings ($T_{Ambient}=25^\circ C$ unless noted otherwise)

Symbol	Description	BY255	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	1300	V	
VRMS	Maximum RMS Voltage	910	V	
VDC	Maximum DC Blocking Voltage	1300	V	
IF(AV)	Maximum Average Forward Rectified Current 10mm Lead Length	3.0	A	
IFSM	Peak Forward Surge Current	150	A	10ms single half sine-wave superimposed on rated load
TJ, TSTG	Operating Junction and Storage Temperature Range	-55 to +150	$^\circ C$	

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	BY255	Unit	Conditions
V_F	Max. Instantaneous Forward Voltage	1.1	V	I _{F(AV)} =3.0A,
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage	5.0	μA	T _A =25°C
T_{rr}	Max. Reverse Recovery Time	3.0	μS	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
C_J	Typical Junction Capacitance	40	pF	V _R = 4V, f=1MHz
R_{thJA}	Typical Thermal Resistance	20	°C / W	Note
R_{thJL}		10		

Note: Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted.

Typical Characteristics Curves

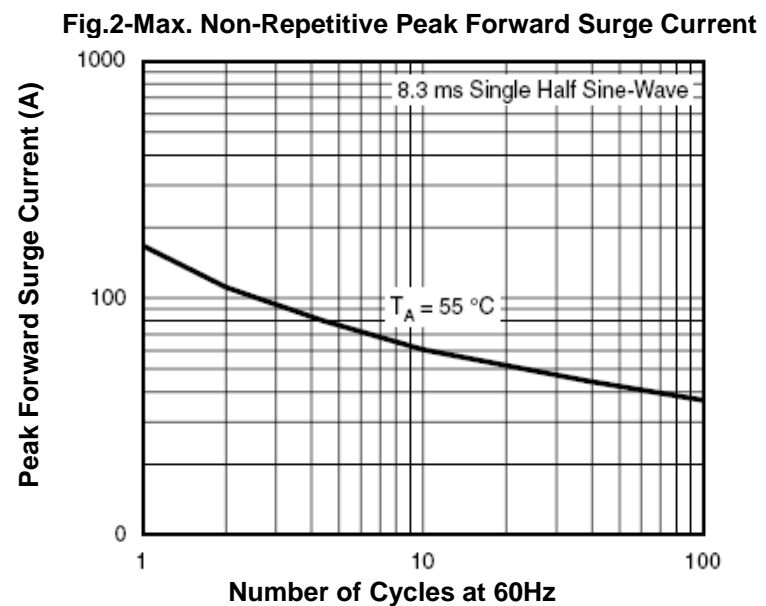
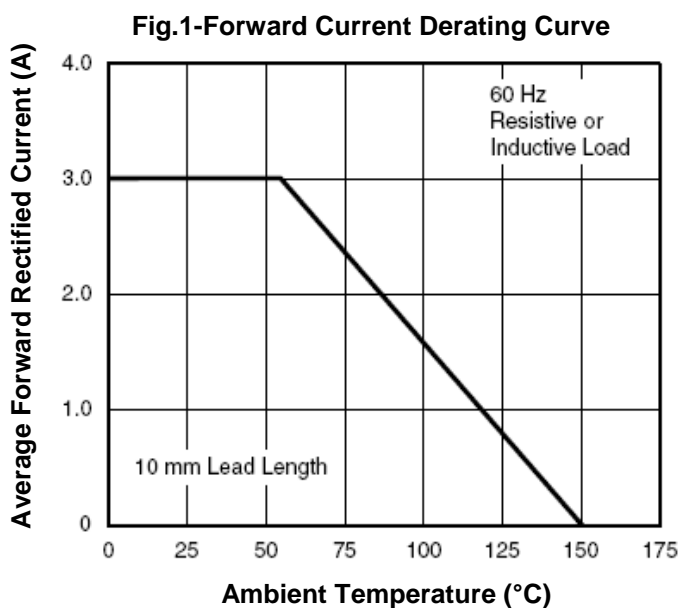


Fig.3-Typical Instantaneous Forward Characteristics

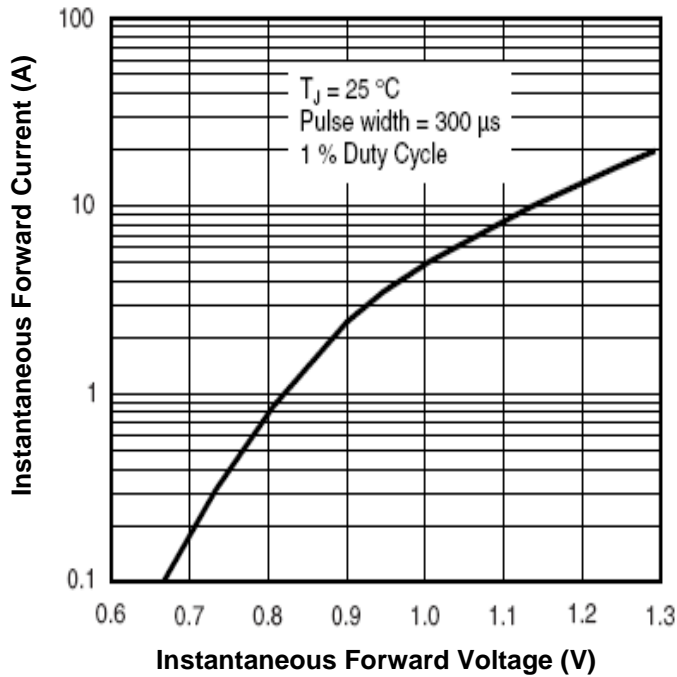


Fig.4-Typical Reverse Characteristics

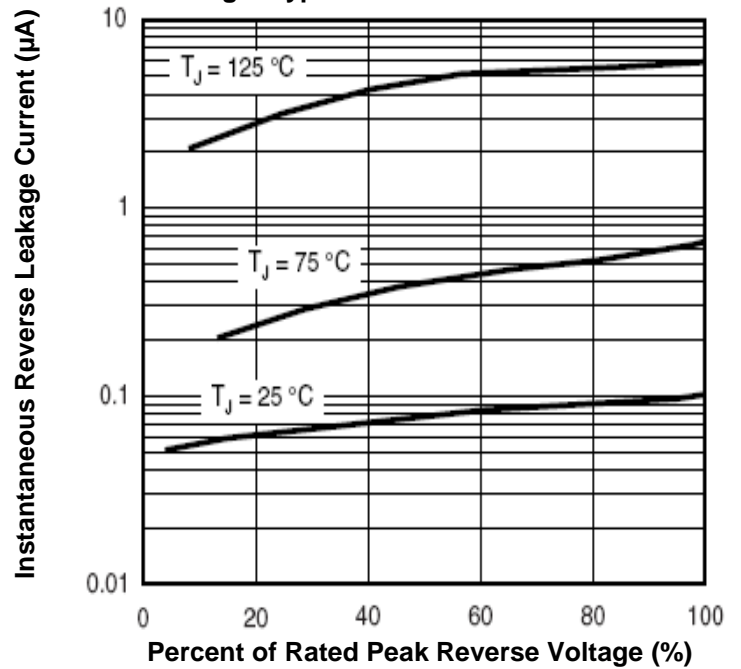
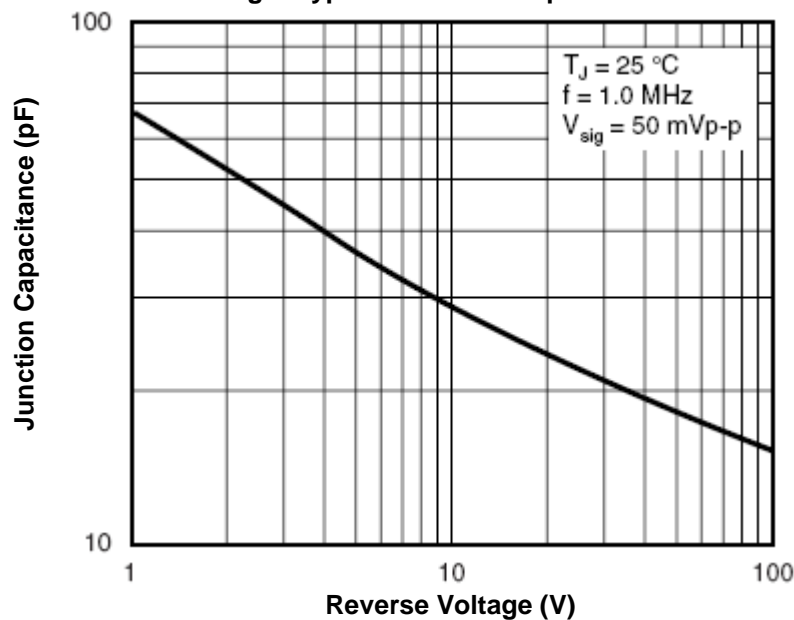
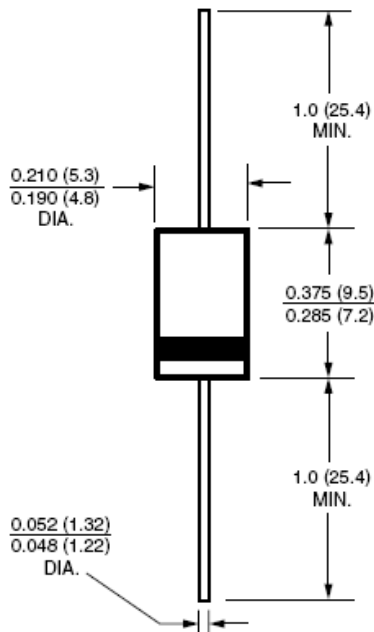


Fig.5-Typical Junction Capacitance



Dimensions in inches (mm)



DO-201AD

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