

VOLTAGE RANGE: 400V

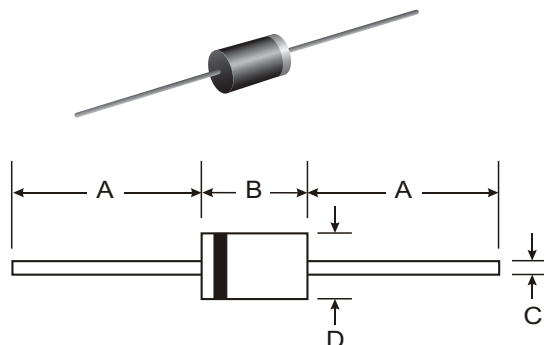
CURRENT: 1.0 A

Features

- Miniature Size
- Low Forward Voltage drop
- Low Reverse Leakage Current
- High Surge Capability

Mechanical Data

- Case: DO - 41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

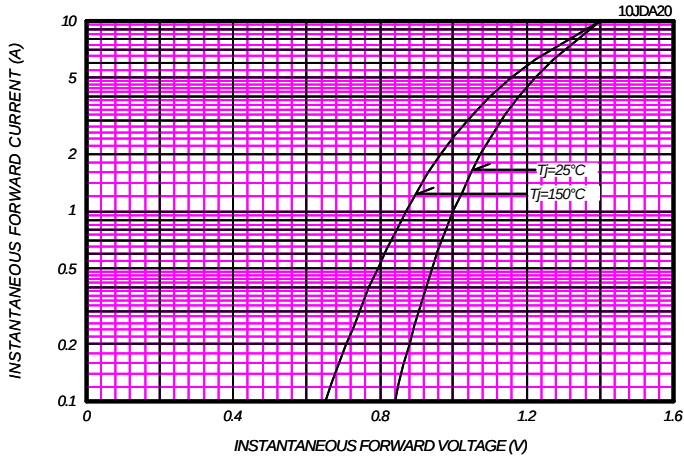
Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

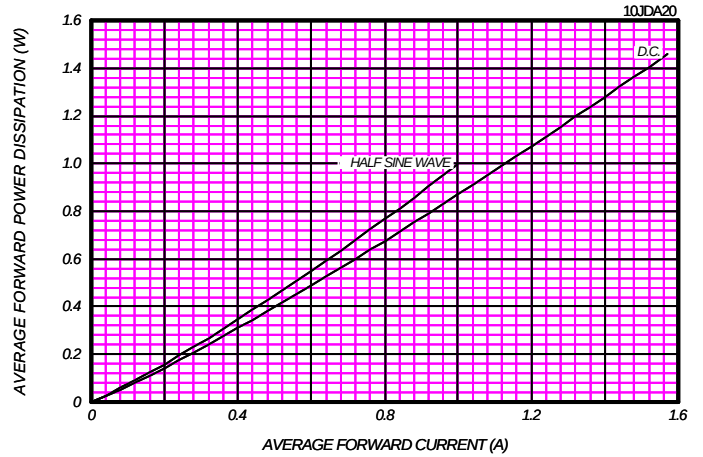
Characteristic	Symbol	10JDA40	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Average Rectified Output Current 50Hz Half Sine Wave Resistive Load $T_a = 29^\circ\text{C}$ *1 $T_a = 126^\circ\text{C}$ *2 (T_l : Lead Temperature)	I_o	1.0	A
RMS Forward Current Surge Forward Current 50Hz Half Sine Wave, 1 cycle, Non-repetitive	$I_{F(RMS)}$	1.57	A
Surge Forward Current	I_{FSM}	45	A
Operating Junction Temperature Range	T_{jw}	- 40 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150	$^\circ\text{C}$

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^\circ\text{C}$, $V_{RM} = V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 1.0\text{A}$	-	-	1.0	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1	-	-	120	$^\circ\text{C/W}$
	$R_{th(j-l)}$	Junction to Lead	-	-	23	

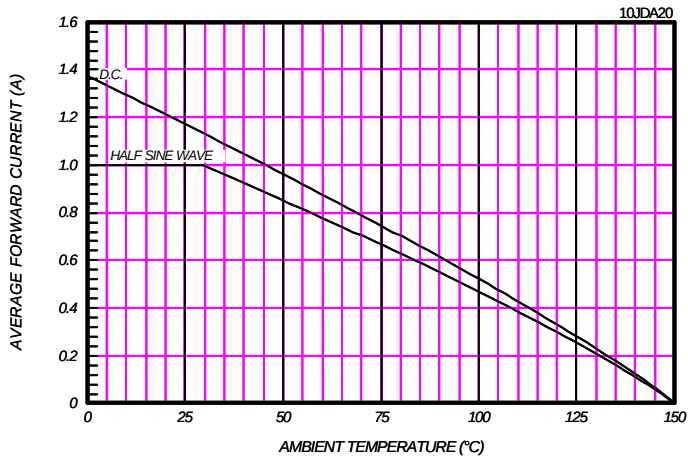
FORWARD CURRENT VS. VOLTAGE



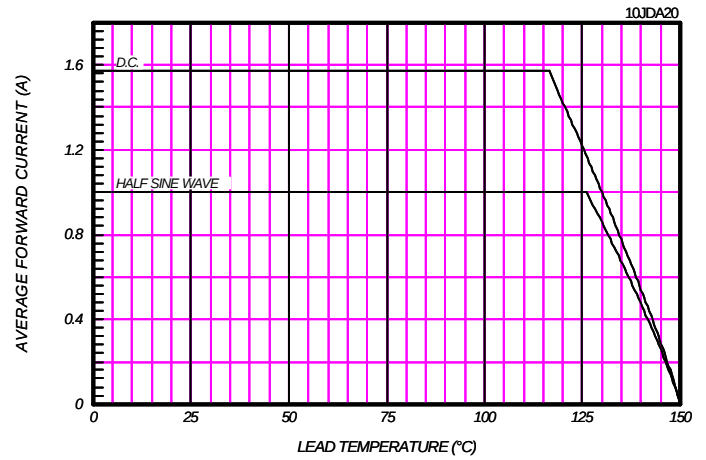
AVERAGE FORWARD POWER DISSIPATION



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
AMBIENT/Without Fin or P.C. Board



AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



SURGE CURRENT RATINGS
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

