

VOLTAGE RANGE: 400V

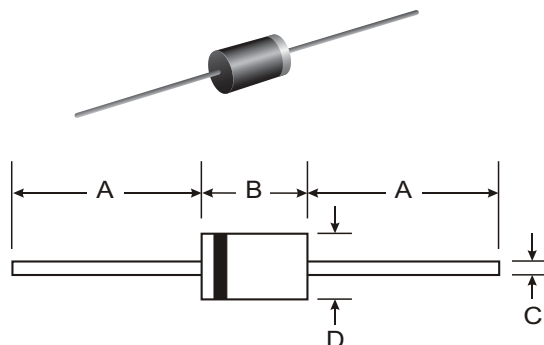
CURRENT: 1.0 A

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		

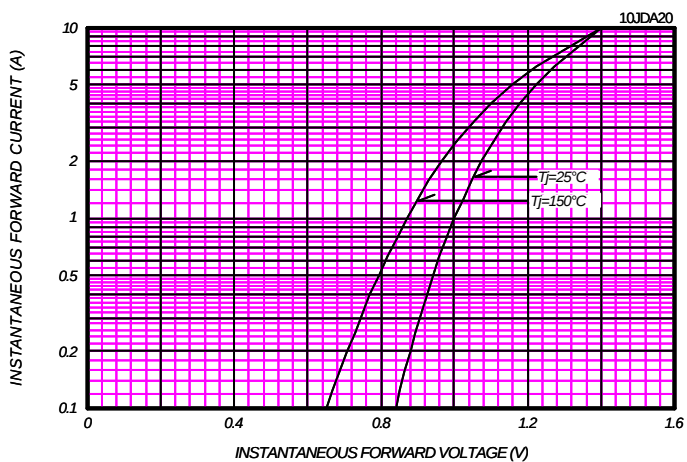
Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

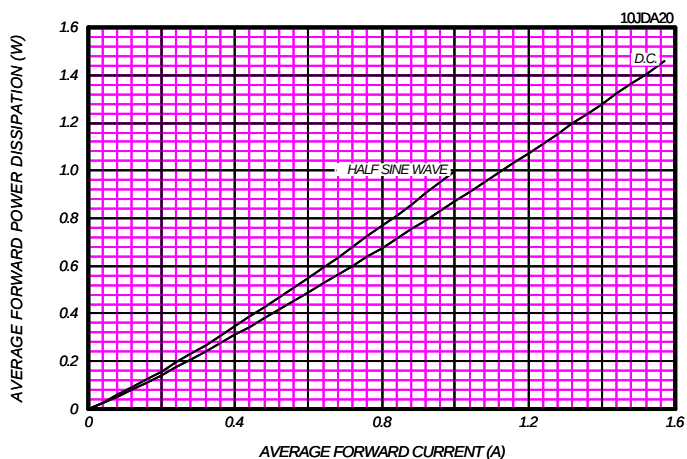
Characteristic	Symbol	10JDA40	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	400	V
Average Rectified Output Current 50Hz Half Sine Wave Resistive Load T_a=29 °C *1 T_a=126°C *2 (T_L: Lead Temperature)	I _O	1.0	A
RMS Forward Current Surge Forward Current 50Hz Half Sine Wave, 1cycle, Non-repetitive	I _{F(RMS)}	1.57	A
Surge Forward Current	I _{FSM}	45	A
Operating Junction Temperature Range	T _{jw}	- 40 to + 150	°C
Storage Temperature Range	T _{stg}	- 40 to + 150	°C

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I _{RM}	T _j = 25 °C, V _{RM} = V _{RRM}	-	-	10	μA
Peak Forward Voltage	V _{FM}	T _j = 25 °C, I _{FM} = 1.0A	-	-	1.0	V
Thermal Resistance	R _{th(j-a)}	Junction to Ambient *1	-	-	120	°C/W
	R _{th(j-l)}	Junction to Lead	-	-	23	

FORWARD CURRENT VS. VOLTAGE

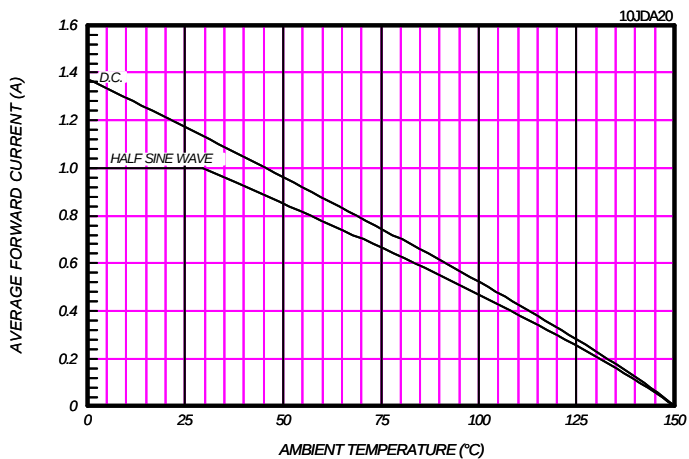


AVERAGE FORWARD POWER DISSIPATION

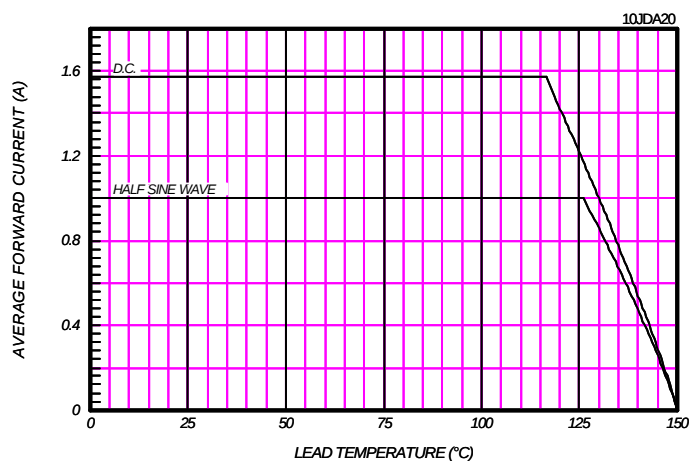


AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

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

