High Current Automobile Rectifier

Reverse Voltage - 40 to 45Volts Forward Current -70 Amperes

Features

- Better heat dissipation
- Low power loss
- High reliability
- High surge forward current capability

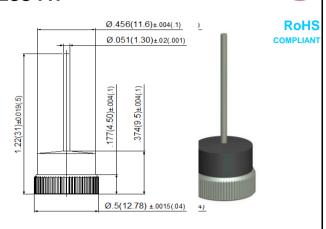
Mechanical Data

- Case: Press-Fit
- Polarity:P= ANODE ON LEAD WIRE, N= CATHODE ON LEAD WIRE

Applications

• Generally applied in alternator, motorbike, automobile, etc.

PRESS-FIT



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

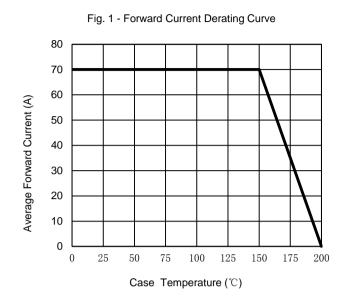
Rating at 25 ℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	DF70P(N)	Unit
Maximum Peak Repetitive Reverse Voltage @Irrm=100mA	VRM	40-45	V
Peak Repetitive Reverse Voltage @TJ=175°C	VRRM	35	V
Maximum Transient Peak Reverse Current (Tw=80ms, Tc=25°C)	IRSM	35	V
Maximum Average Forward Current IO@TC=150°C 60HZ,resistive or inductive load	I(AV)	70	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	710	А
Superimposed on Rated Load (JEDEC Method)			
Maximum Inst. Forward Voltage Drop,IF at 100Amp	VF	1.02	V
Maximum DC Reverse Current at Rated @TJ=25°C	lo.	1	
Peak Repetitive Reverse Voltage @TJ=175°C	lR	100	uA
Typical Thermal Resistance Junction to Ambient	Reja	0.4	°C/W
Operating Junction Temperature Range	TJ	-40to+200	°C
Storage Temperature Range	Тѕтс	-40to+200	$^{\circ}$





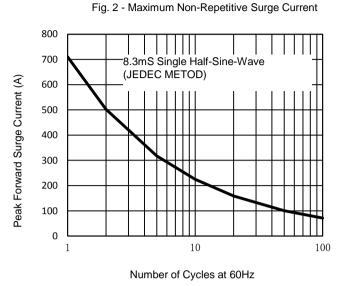


Fig. 3 - Typical Reverse Characteristics

1000.0

TJ=175° C

100.0

TJ=25° C

1.0

0.1

20

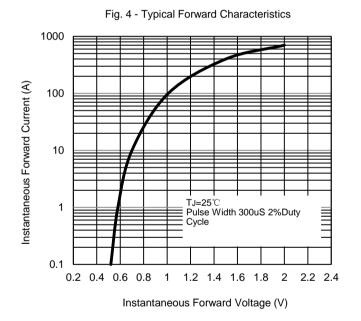
40

60

80

100

Percent of Rated Peak Reverse Voltage (%)



The curve above is for reference only.



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