

High Current Automobile Rectifier

Reverse Voltage - 19 to 45Volts

Forward Current - 50 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

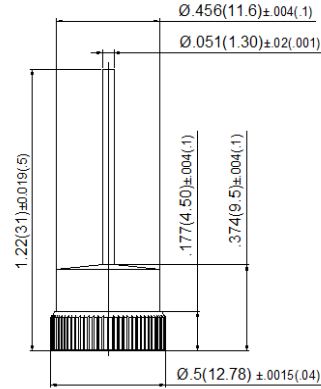
Applications

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

PRESS-FIT



**RoHS
COMPLIANT**



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	DF50P(N)	Unit
Reverse Breakdown Voltage @Irrm=100mA	VBR	40-45	V
Peak Repetitive Reverse Voltage	VRRM	35	V
Maximum Transient Peak Reverse Current (Tw=80ms, Tc=25°C)	IRSM	25	V
Maximum Average Forward Current IO@Tc=170°C 60HZ, resistive or inductive load	I(AV)	50	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	600	A
Maximum Inst. Forward Voltage Drop, IF at 100Amp	VF	1.05	V
Maximum DC Reverse Current at Rated @Tj=25°C	IR	1	uA
Peak Repetitive Reverse Voltage @Tj=195°C		100	
Maximum Thermal Resistance Junction to Ambient	RθJA	0.6	°C/W
Operating Junction Temperature Range	TJ	-40to+200	°C
Storage Temperature Range	TSTG	-40to+200	°C

Fig. 1 - Forward Current Derating Curve

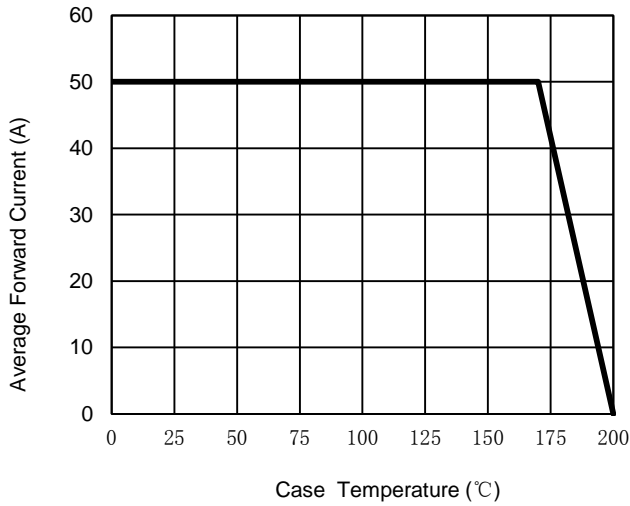


Fig. 2 - Maximum Non-Repetitive Surge Current

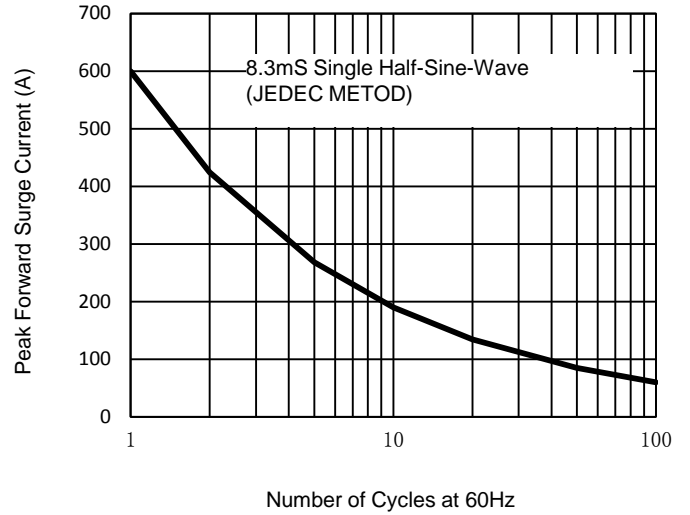


Fig. 3 - Typical Reverse Characteristics

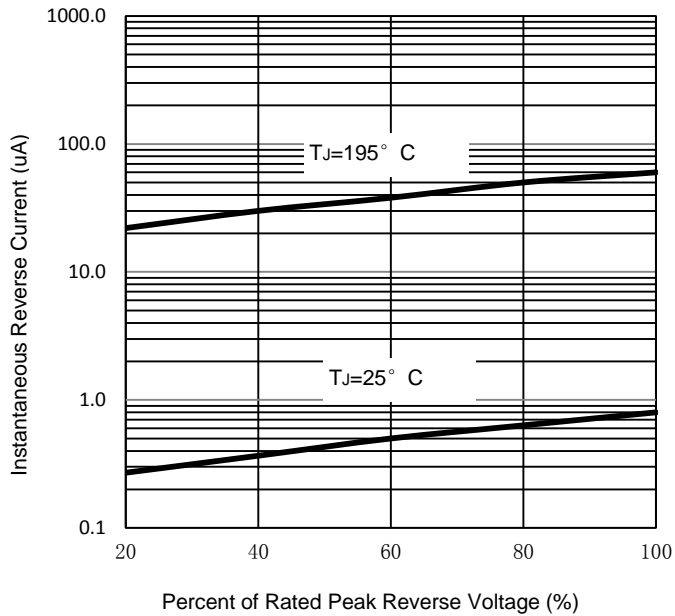
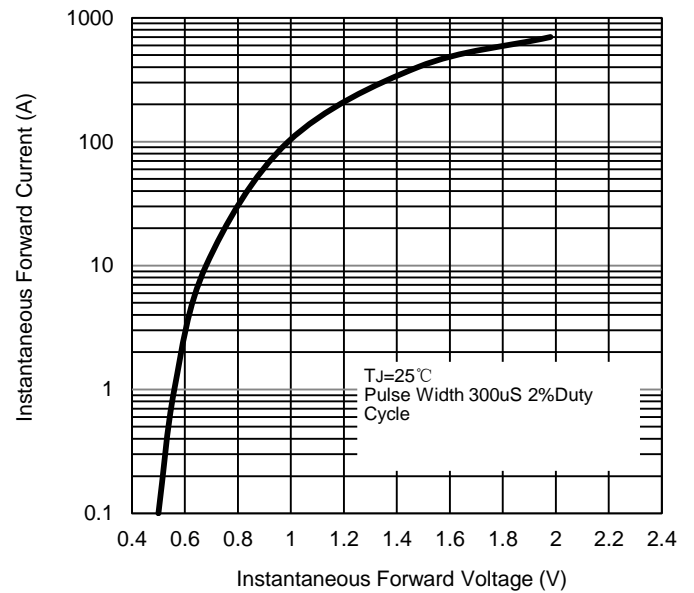


Fig. 4 - Typical Forward Characteristics





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