

**High Current Automobile Rectifier**

Reverse Voltage - 24 to 27Volts
Forward Current - 35 Amperes

Features

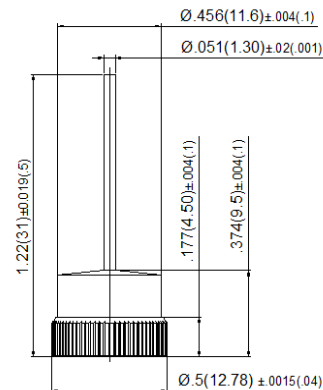
- Better heat dissipation
- Low power loss
- High reliability
- High surge forward current capability

Mechanical Data

- Case: Press-Fit
 - Polarity: P= ANODE ON LEAD WIRE, N= CATHODE ON LEAD WIRE
- Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

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	DC35P(N)	Unit
Reverse Breakdown Voltage @Irrm=100mA	V _{BR}	24-27	V
Peak Repetitive Reverse Voltage	V _{RRM}	20	V
Maximum Transient Peak Reverse Current (Tw=80ms, Tc=25°C)	I _{RSM}	30	V
Maximum Average Forward Current @Tc=170°C 60HZ, resistive or inductive load	I _(AV)	35	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	420	A
Maximum Inst. Forward Voltage Drop, I _F at 100Amp	V _F	1.1	V
Maximum DC Reverse Current at Rated @Tj=25°C	I _R	1	uA
Peak Repetitive Reverse Voltage @Tj=195°C		100	
Typical Thermal Resistance Junction to Ambient	R _{θJA}	0.8	°C/W
Operating Junction Temperature Range	T _J	-40to+200	°C
Storage Temperature Range	T _{STG}	-40to+200	°C

RATING AND CHARACTERISTIC CURVES

DC35P(N)



Fig. 1 - Forward Current Derating Curve

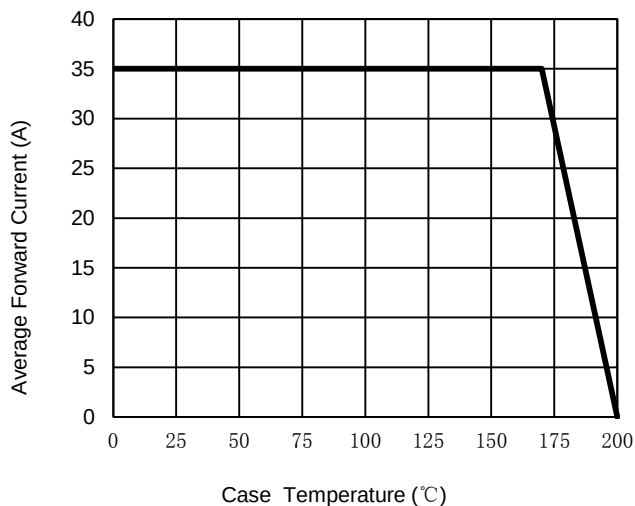


Fig. 2 - Maximum Non-Repetitive Surge Current

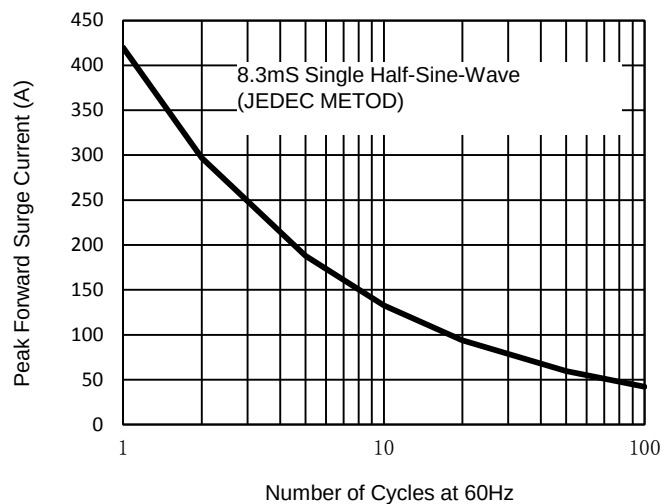


Fig. 3 - Typical Reverse Characteristics

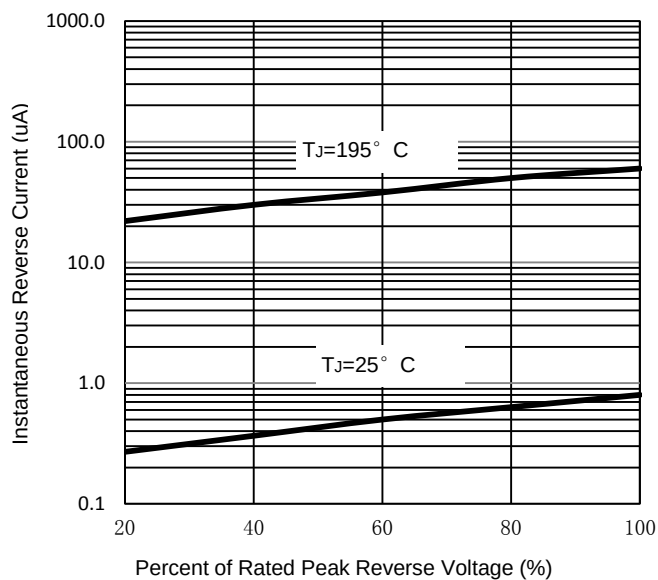
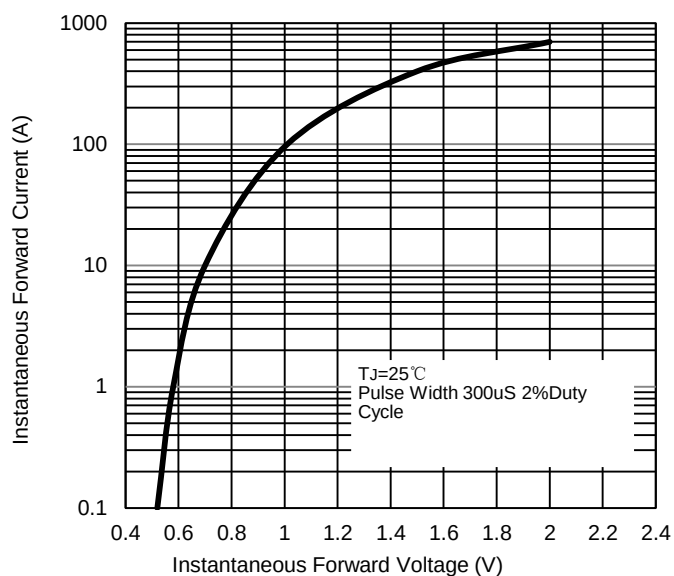


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.

DC35*-S-00/99-00/01
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