

**High Current Automobile Rectifier**

**Reverse Voltage - 400Volts**  
**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

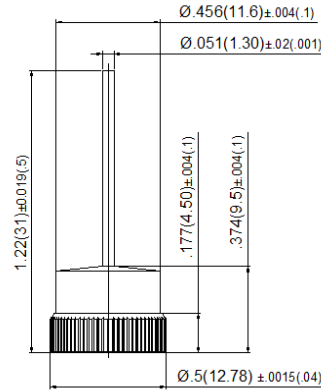
**Applications**

- 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	DV504P(N)	Unit
Maximum Peak Repetitive Reverse Voltage @I <sub>rrm</sub> =100mA	V <sub>RM</sub>	400	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	280	V
Maximum Average Forward Current I <sub>O</sub> @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)	I <sub>FSM</sub>	600	A
Maximum Inst. Forward Voltage Drop,IF at 100Amp	V <sub>F</sub>	1.05	V
Maximum DC Reverse Current at Rated @T <sub>J</sub> =25°C	I <sub>R</sub>	3	uA
Peak Repetitive Reverse Voltage @T <sub>J</sub> =175°C		800	
Maximum Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	0.6	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-40to+200	°C
Storage Temperature Range	T <sub>STG</sub>	-40to+200	°C

Fig. 1 - Forward Current Derating Curve

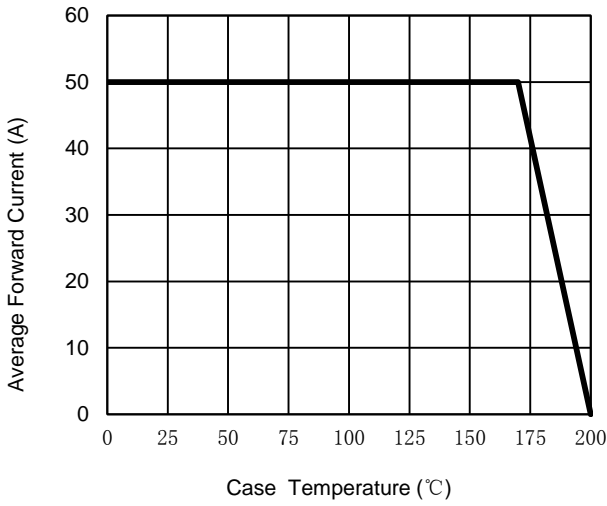


Fig. 2 - Maximum Non-Repetitive Surge Current

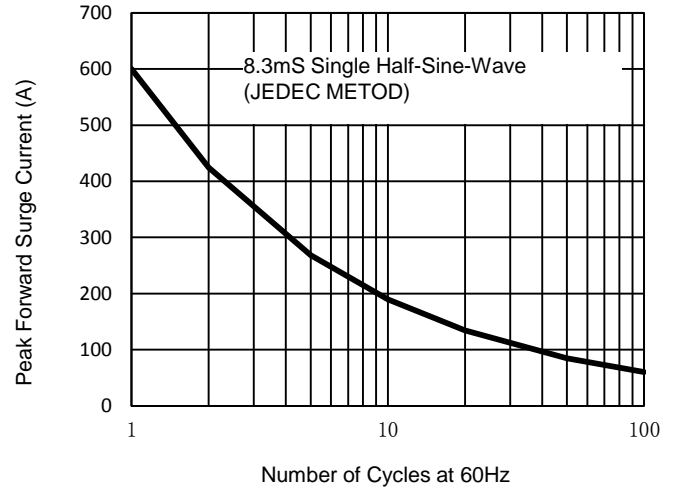


Fig. 3 - Typical Reverse Characteristics

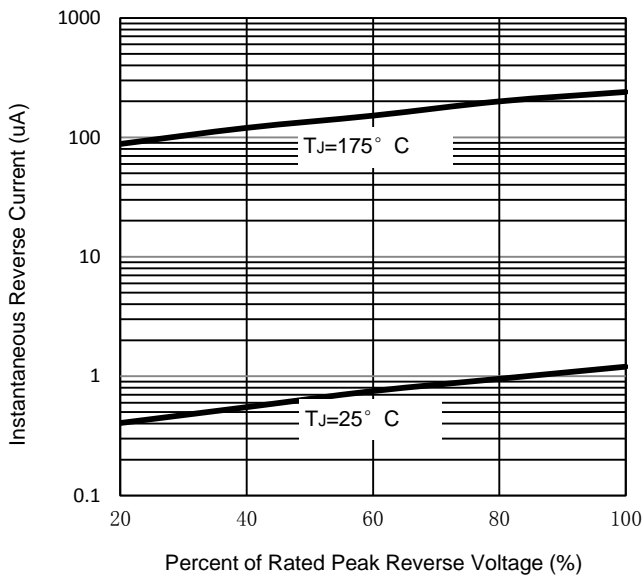
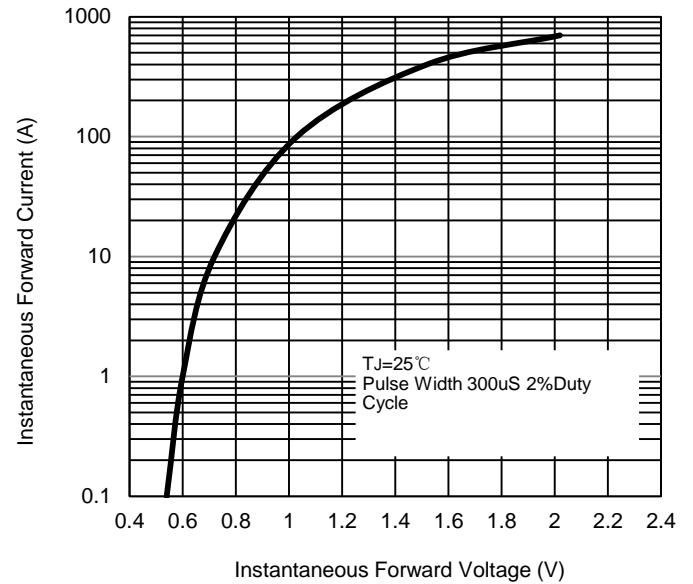


Fig. 4 - Typical Forward Characteristics





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