

High Current Automobile Rectifier

**Reverse Voltage - 400Volts
Forward Current - 35 Amperes**

Features

- Better heat dissipation
- Forward Voltage Drop
- High reliability
- Adopt a vacuum solder techniques

Mechanical Data

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

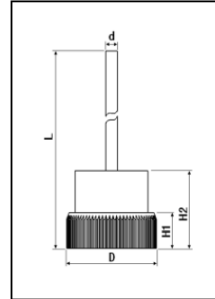
Applications 应用

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

LUCAS



**RoHS
COMPLIANT**



sym	size
L	30(1.18)MAX
D	$\Phi 10.12(0.399)^{+0.05(0.002)}_{-0.03(0.001)}$
d	$\Phi 1.28(0.050) \pm 0.025(0.001)$
H1	$3.9(0.153) \pm 0.2 (0.008)$
H2	8.5(0.334)MAX

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	LV354P(N)	Unit
Maximum Peak Repetitive Reverse Voltage @I _{rrm} =100mA	V _{RM}	400	V
Peak Repetitive Reverse Voltage @T _J =175°C	V _{RRM}	280	V
Maximum Average Forward Current I _O @T _C =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 @T _J =25°C	I _R	3	uA
Peak Repetitive Reverse Voltage @T _J =175°C		800	
Maximum 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

Fig. 1 - Forward Current Derating Curve

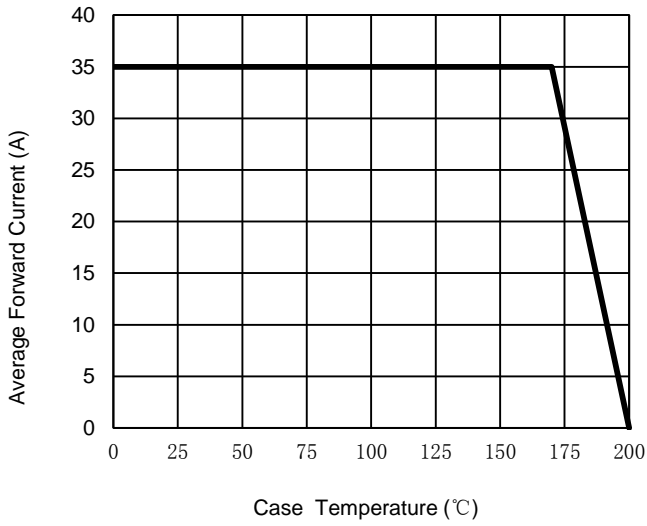


Fig. 2 - Maximum Non-Repetitive Surge Current

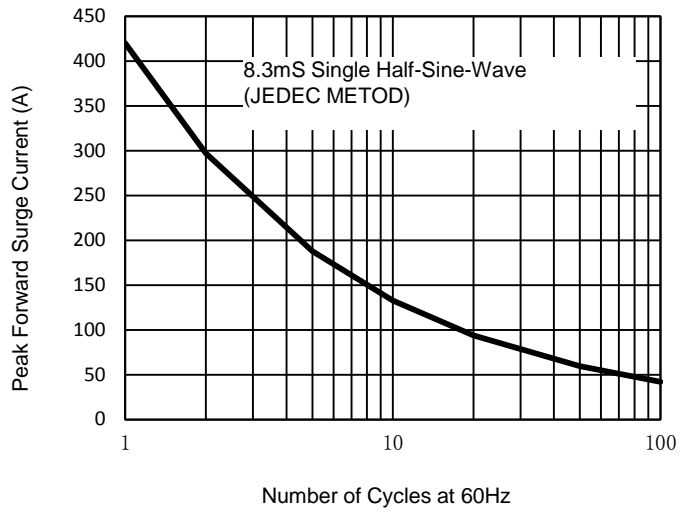


Fig. 3 - Typical Reverse Characteristics

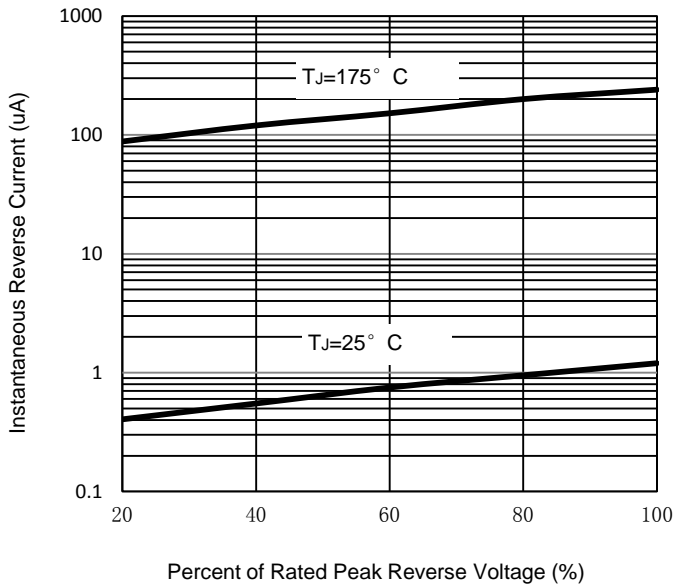
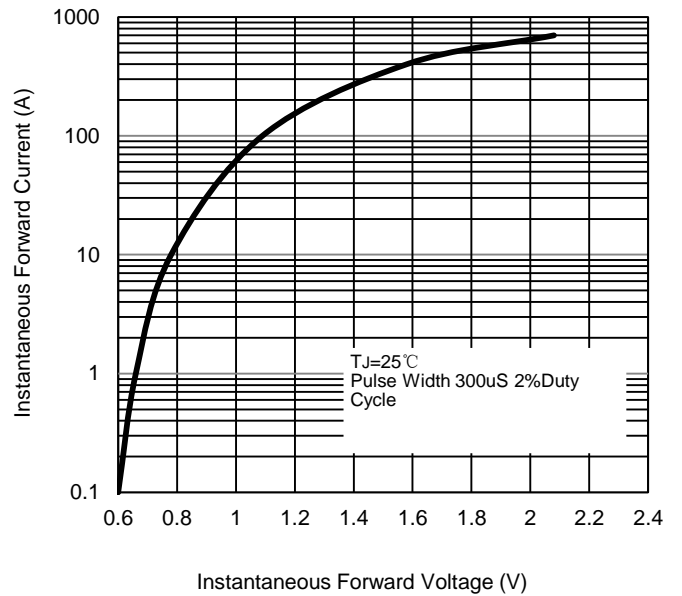


Fig. 4 - Typical Forward Characteristics





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