旭昌辉半导体
XUCHANGHUI Semiconductor

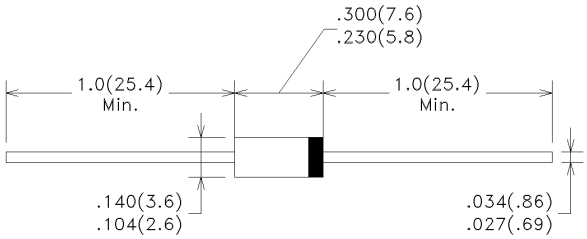
RL207

Axial General Purpose Rectifier

2.0A / 1000V

Package Outline Dimensions in mm (inches)

DO-15



Features

- High recovery voltage
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in general purpose rectification of power Supplies.

Mechanical Data

- Case:DO-15 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25℃ (unless otherwise specified)

Parameter	Symbol	RL207	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	60	A
Thermal Resistance	R_{thJA}	48	°C /W
Storage temperature range	T_S	-55 ~ 150	°C
Operating Junction temperature range	Tj	-55 ~ 150	°C

Electrical characteristics

Ratings at TA=25℃ (unless otherwise specified)

Parameter	Test Conditions	Symbol	RL207	Unit
Maximum forward voltage	IF=2.0A	VF	1.1	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	5.0	μA
	TA=100°C		100	

Characteristics Curves

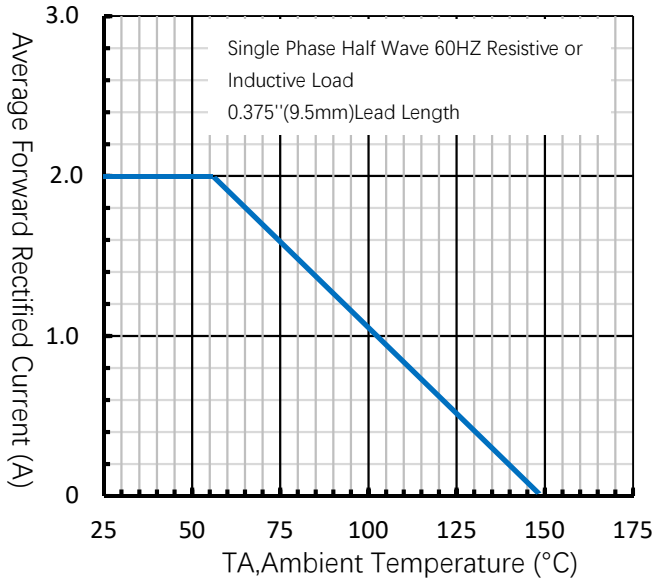


Fig.1 Forward Current Derating Curve

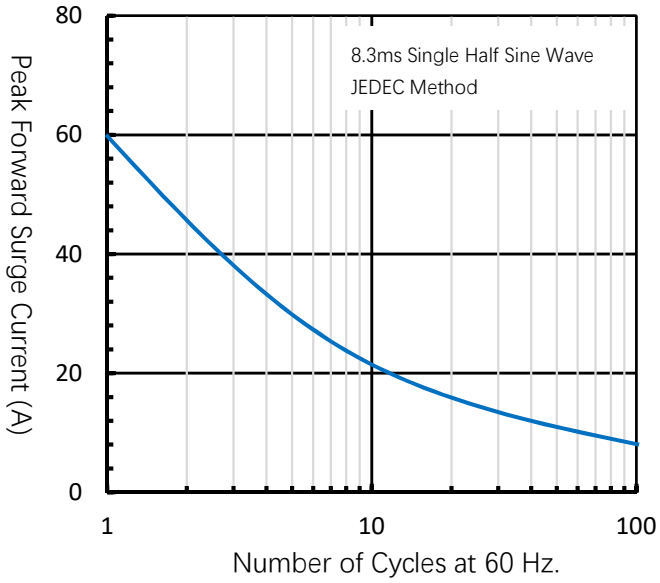


Fig.2 Forward Surge Current Capability

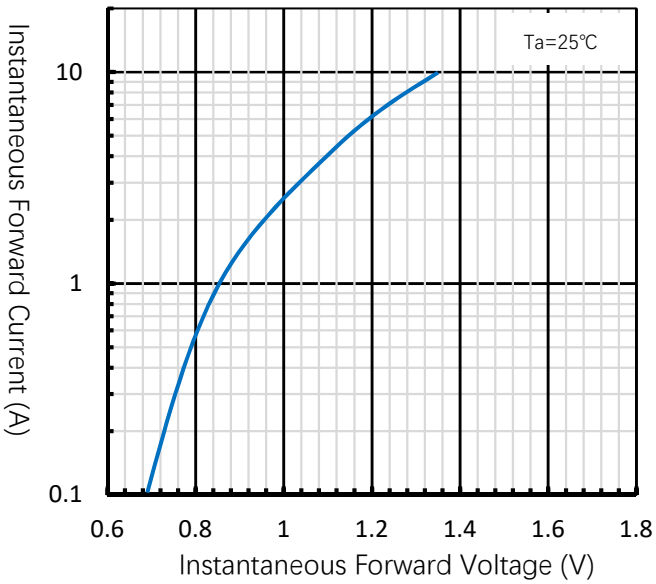


Fig. 3 Typical Forward Characteristic

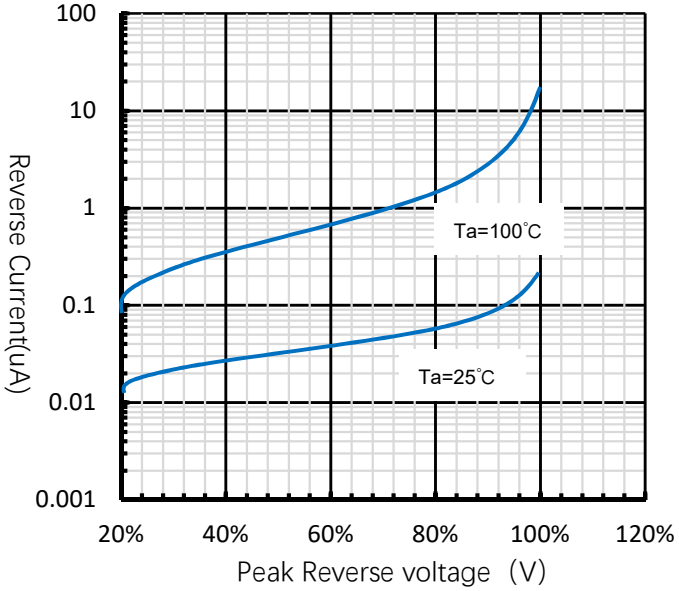


Fig. 4 Typical Reverse Characteristics