

## INCHANGE SEMICONDUCTOR

# FML-G13L

### FEATURES

- Planar Construction
- Ultrafast Recovery
- Soft Recovery Characteristics
- Low Forward Voltage
- Low Stored Charge
- Low Leakage Current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

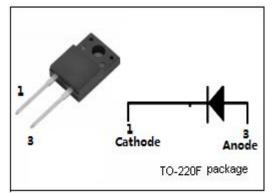
### **APPLICATIONS**

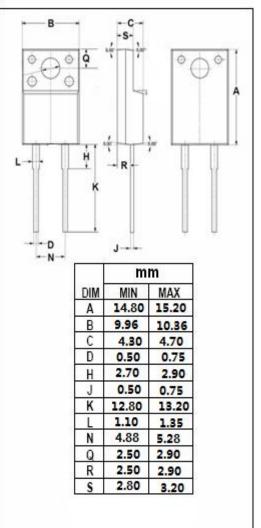
- · Freewheeling, Rectifier, Clamp
- Snubber Diode
- Freewheeling Diode in SMPS、UPS、DC/DC、converters
- Inverters, Converters

## ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage tw=500ns;duty=1/40	300	V
IF(AV)	Average Rectified Forward Current @Tc=75°C	5	А
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions;One shot	70	A
TJ	Junction Temperature	-55~175	°C
Tstg	Storage Temperature Range	-55~175	°C

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### **ELECTRICAL CHARACTERISTICS(Ta=25°C)** (Pulse Test: Pulse Width=300 $\mu$ s,Duty Cycle $\leq$ 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	IF=5A,T a=25℃	1.3	V
IR	Maximum Instantaneous Reverse Current	VR= 300V, T a=25℃	2	μA
t <sub>rr</sub>	Maximum Reverse Recovery Time	I F =0.5A, I R =1A, I rr=0.25A	25	ns

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