

## Ultra-Fast Recovery Diodes 5A FRED



### Features

Adopt FRED chip  
Low forward

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

### Mechanical Data

**Package:** ITO-220AC

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** As marked

### Maximum Ratings (T<sub>j</sub>=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MUR540F
Device marking code			MUR540F
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	400
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>c</sub> (FIG.1)	I <sub>O</sub>	A	5
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T <sub>j</sub> =25 °C	I <sub>FSM</sub>	A	50
Current Squared Time @1ms ≤ t ≤ 8.3ms T <sub>j</sub> =25 °C	I <sup>2</sup> t	A <sup>2</sup> s	10
Storage Temperature	T <sub>stg</sub>	-	-55 ~ +175
Junction Temperature	T <sub>j</sub>	-	-55 ~ +175
Typical Junction capacitance @4V,1MHz	C <sub>j</sub>	pF	50
Mounting torque @recommend torque 0.5kg cm	Tor	kg cm	8



# MUR540F

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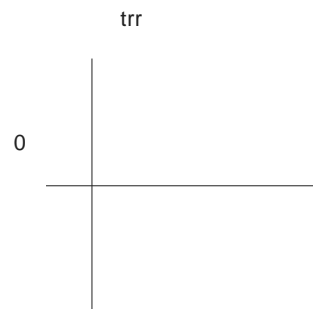
## Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	
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Characteristics (Typical)

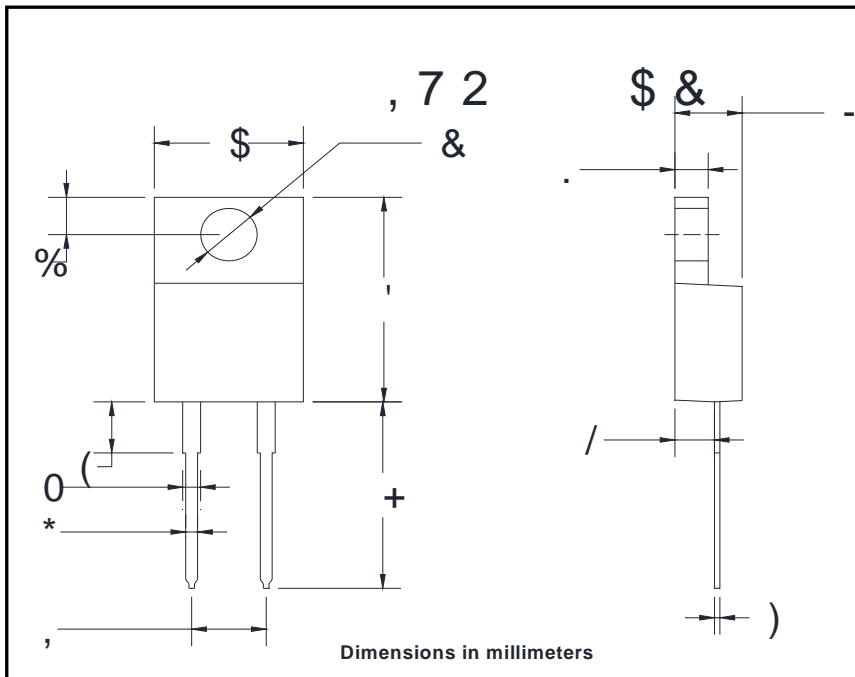
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





# MUR540F

## Outline Dimensions



ITO-220AC		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.5	4.1
F	0.45	0.75
G	0.45	0.75
H	13.35	14.15
I	4.97	5.23
J	4.3	4.8
K	2.5	2.74
L	2.58	2.82
M	1.03	1.43



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## Disclaimer

The information presented in thi