

Fast Recovery Diode

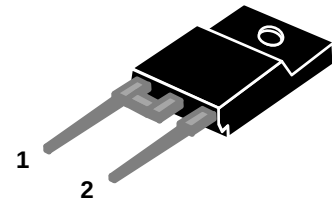
Features

- High Breakdown Voltage ($V_{RRM} = 300V$)
- Fast Recovery Time
- Low Forward Voltage Drop
- Low Leakage Current

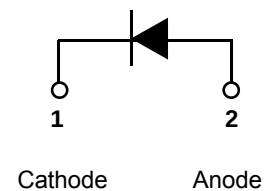
Application

- Rectifiers for Switch Mode Power Supplies (SMPS)
- Free Wheeling Diodes in Converters and Motor Control Circuits

TO-220F-2P Package



Pin Configuration



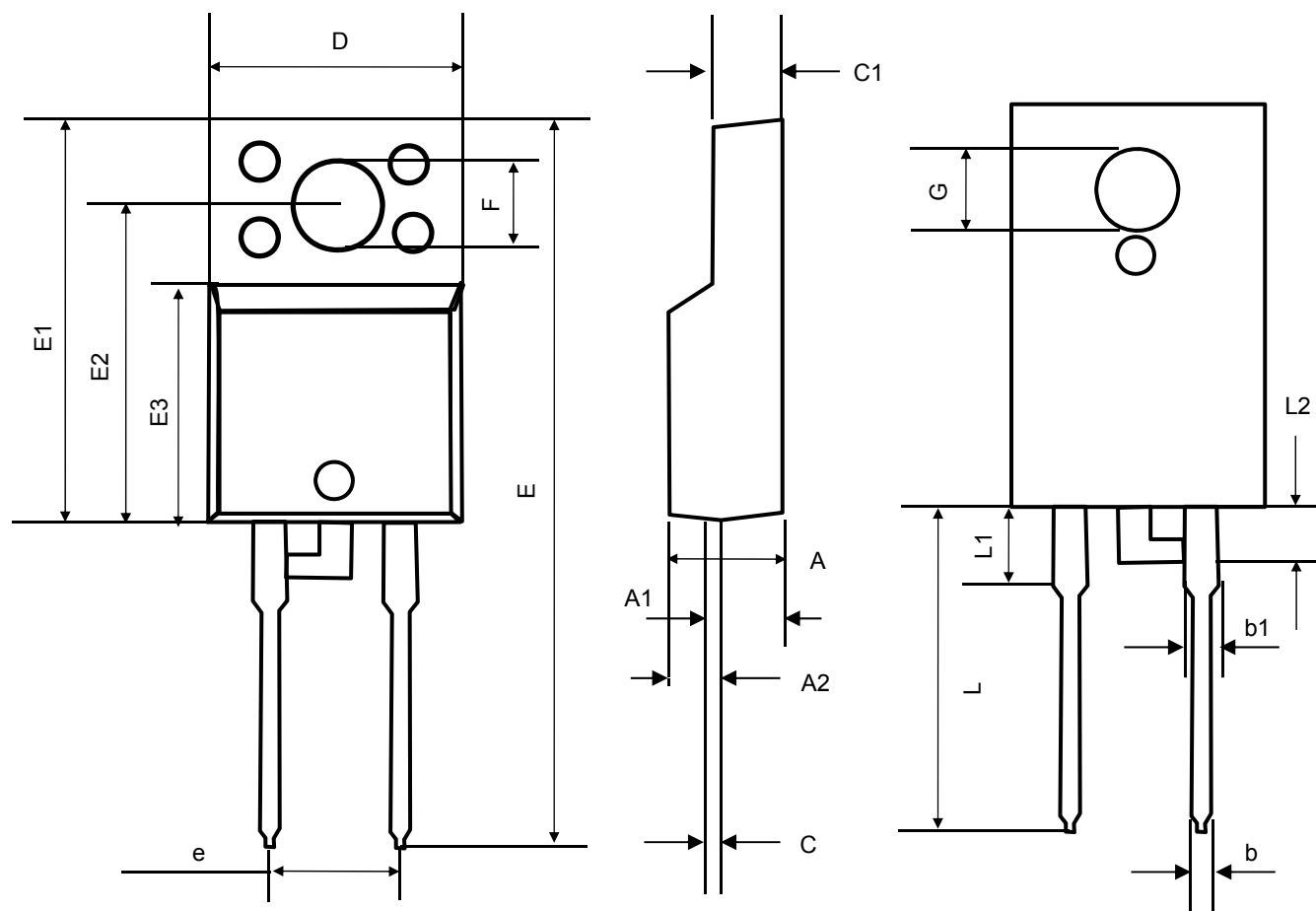
Absolute Maximum Rating ($T_a = 25^\circ C$)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	300	V
Average Rectified Forward Current	I_o	10	A
Forward Current Surge Peak	I_{FSM}	100	A
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-55 ~ 150	$^\circ C$

Electrical Characteristics ($T_a = 25^\circ C$)

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 10A$	-	-	1.3	V
Reverse Leakage Current	I_R	$V_R = 300V$	-	-	20	μA
Reverse Recovery Time	t_{rr}	$I_F = 1A, di/dt = -100A/\mu s$	-	-	28	ns

Package Outline Drawing: TO-220F-2P



SYMBOL	MILLIMETER			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	-	-	4.60	
A1	2.45	2.50	2.55	
A2	1.95	2.00	2.05	
b	0.65	0.75	0.85	
b1	1.07	1.27	1.47	
C	0.40	0.50	0.60	
C1	2.70	2.80	2.90	
D	9.90	10.00	10.10	
E	28.00	-	28.60	
E1	15.50	15.60	15.70	
E2	12.30	12.40	12.50	
E3	9.15	9.20	9.25	
F	3.30	3.40	3.50	
G	3.10	3.20	3.30	
e1	5.08 BSC			
L	12.40	-	13.00	
L1	3.46 BSC			
L2	2.21 BSC			