

(300V / 10A TO-220F15)

LOW LOSS SUPER HIGH SPEED DIODE

■ Features

- Low V_f
- Super high speed switching.
- High reliability by planer design.

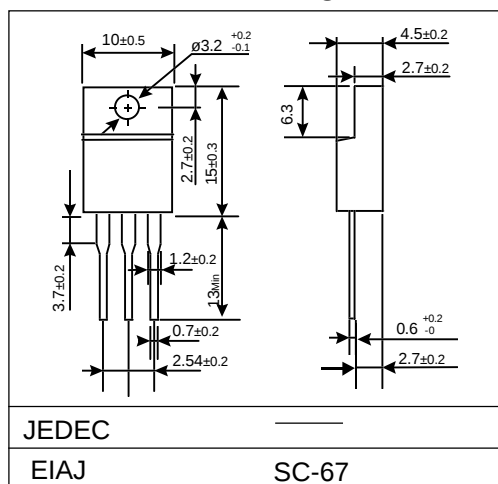
■ Applications

- High speed power switching.

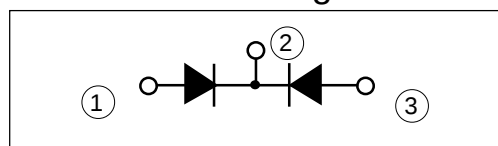
■ Maximum Ratings and Characteristics

- Absolute Maximum Ratings

■ Outline Drawings



■ Connection Diagram



Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		300	V
Repetitive peak surge reverse voltage	V_{RSM}		300	V
Isolating voltage	V_{iso}	Terminals to Case, AC. 1min.	1500	V
Average output current	I_o	duty=1/2, $T_c=101^{\circ}C$ Square wave	10*	A
Suege current	I_{FSM}	Sine wave 10ms	40	A
Operating junction temperature	T_j		-40 to +150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

- Electrical Characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	V_F	$I_F=5A$	1.2	V
Reverse current **	I_R	$V_R=V_{RRM}$	100	μA
Reverse recovery time	t_{rr}	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	$^{\circ}C/W$

- Mechanical Characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.3	g

Characteristics