

# ESCO23M-15 (5A)

( 600V,1500V / 5A )

## LOW LOSS SUPER HIGH SPEED RECTIFIER

### Features

- Insulated package by fully molding
- Low VF
- Super high speed switching
- High reliability by planer design

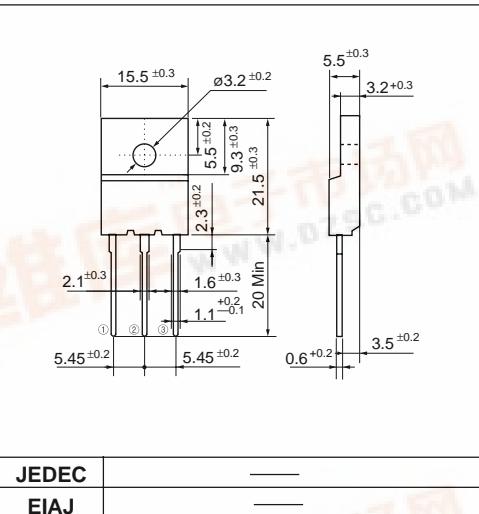
### Applications

- High speed power switching

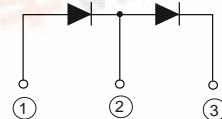
### Maximum ratings and characteristics

- Absolute maximum ratings

### Outline drawings, mm



### Connection diagram



Item	Symbol	Conditions	Rating		Unit
			(1) to (2)	(2) to (3)	
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	1500	V
Repetitive peak surge reverse voltage	V <sub>RSM</sub>		600	1500	V
Isolating voltage	V <sub>iso</sub>	Terminals to Case, AC. 1min.	1500		V
Average output current	I <sub>o</sub>	T <sub>c</sub> =100°C	5		A
Surge current	I <sub>FSM</sub>	Sine wave 10ms	50	80	A
Operating junction temperature	T <sub>j</sub>		-40 to +150		°C
Storage temperature	T <sub>stg</sub>		-40 to +150		°C

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

Item	Symbol	Conditions	Max.		Unit
			(1) to (2)	(2) to (3)	
Forward voltage drop	V <sub>FM</sub>	I <sub>FM</sub> =4A	3.0	1.8	V
Reverse current	I <sub>RRM</sub>	V <sub>R</sub> =V <sub>RRM</sub>	500	50	µA
Reverse recovery time	t <sub>rr</sub>	I <sub>f</sub> =0.1A, I <sub>R</sub> =0.1A	0.15	0.6	µs
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	2.5		°C/W

## ■ Characteristics

