

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

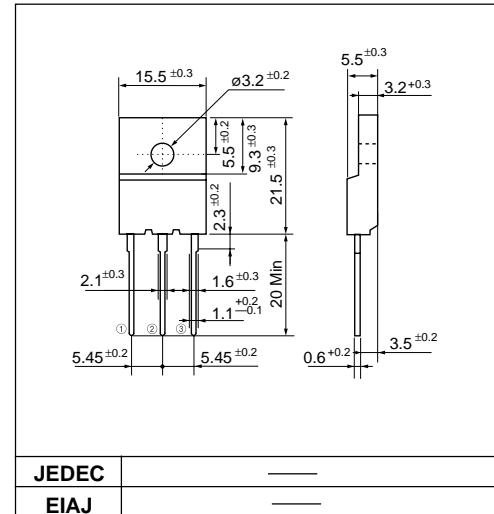
■ Applications

- High speed power switching

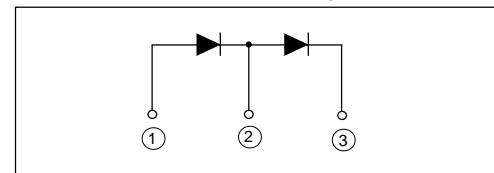
■ Maximum ratings and characteristics

- Absolute maximum ratings

■ Outline drawings, mm



■ Connection diagram



Item	Symbol	Conditions	Rating		Unit
			(1) to (2)	(2) to (3)	
Repetitive peak reverse voltage	V_{RRM}		600	1500	V
Repetitive peak surge reverse voltage	V_{RSM}		600	1500	V
Isolating voltage	V_{iso}	Terminals to Case, AC. 1min.	1500		V
Average output current	I_o	$T_c=100^\circ C$	5		A
Surge current	I_{FSM}	Sine wave 10ms	50	80	A
Operating junction temperature	T_j		-40 to +150		°C
Storage temperature	T_{stg}		-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_{FM}	$I_{FM}=4A$	3.0	1.8	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	500	50	µA
Reverse recovery time	t_{rr}	$I_F=0.1A, I_R=0.1A$	0.15	0.6	µs
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5		°C/W

■ Characteristics

