

### SCHOTTKY BARRIER DIODE

#### ■ Features

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

#### ■ Applications

- High speed power switching.

#### ■ Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		90	V
Repetitive peak surge reverse voltage	V <sub>RSM</sub>	t <sub>w</sub> =500ns, duty=1/40	100	V
Isolating voltage	V <sub>iso</sub>	Terminals to Case, AC. 1min.	1500	V
Average output current	I <sub>O</sub>	duty=1/2, T <sub>c</sub> =116°C Rectangl wave	5	A
Surge current	I <sub>FSM</sub>	Sine wave 10ms	80	A
Operating junction temperature	T <sub>j</sub>		-40 to +150	°C
Storage temperature	T <sub>stg</sub>		-40 to +150	°C

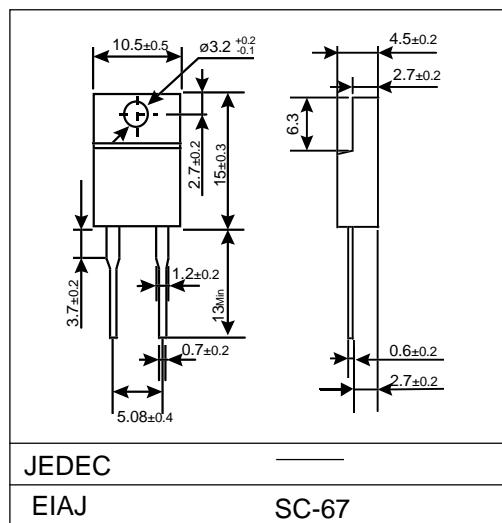
- Electrical Characteristics (Ta=25°C Unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V <sub>F</sub>	I <sub>F</sub> =4.0A	0.9	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RRM</sub>	5.0	mA
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	5.0	°C/W

- Mechanical Characteristics

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

#### ■ Outline Drawings



#### ■ Connection Diagram



## ■ Characteristics

