

# KP823C03 (5A)

(30V / 5A )

## SCHOTTKY BARRIER DIODE

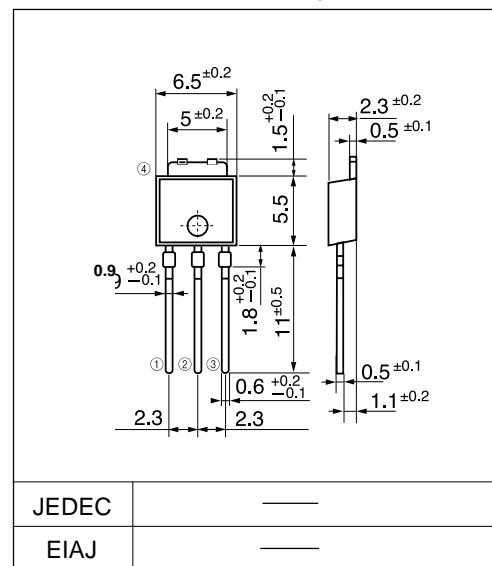
### ■ Features

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

### ■ Applications

- High speed power switching

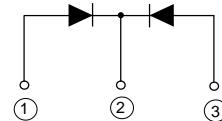
### ■ Outline drawings, mm



JEDEC

EIAJ

### ■ Connection diagram



### ■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		30	V
Non-repetitive peak reverse voltage	V <sub>RSM</sub>	t <sub>w</sub> =500ns, duty=1/40	30	V
Average output current	I <sub>o</sub>	Square wave, duty=1/2 T <sub>c</sub> =117°C	5.0*	A
Surge current	I <sub>FSM</sub>	Sine wave 10ms	60	A
Operating junction temperature	T <sub>j</sub>		-40 to +150	°C
Storage temperature	T <sub>stg</sub>		-40 to +150	°C

\* Average forward current of centertap full wave connection

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

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V <sub>FM</sub>	I <sub>FM</sub> =2.5A	0.47	V
Reverse current	I <sub>RRM</sub>	V <sub>R</sub> =V <sub>RRM</sub>	5.0	mA
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	10	°C/W

## ■ Characteristics

