

YG812S04R (10A) (45V / 10A)

SCHOTTKY BARRIER DIODE

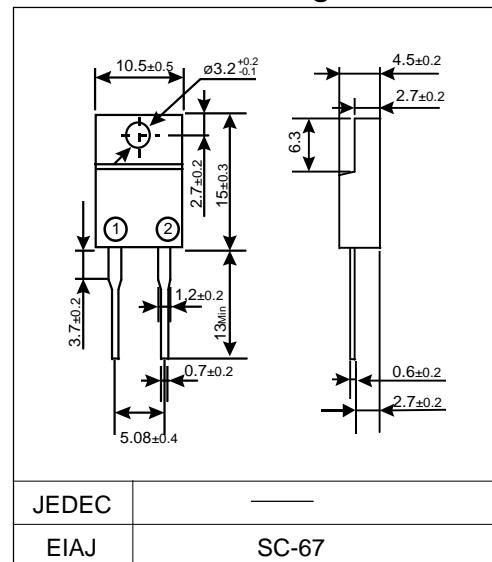
■ Features

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

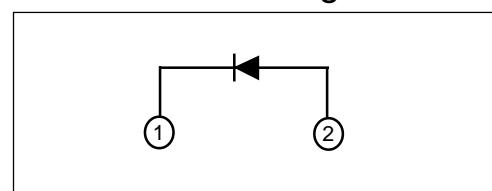
■ Applications

- High speed power switching

■ Outline drawings, mm



■ Connection diagram



■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		45	V
Non-repetitive peak reverse voltage	V_{RSM}	$t_w=500\text{ns}$, duty=1/40	48	V
Isolating voltage	V_{iso}	Terminals to Case, AC. 1min.	1500	V
Average output current	I_o	Square wave, duty=1/2 $T_c=124^\circ\text{C}$	10	A
Surge current	I_{FSM}	Sine wave 10ms	250	A
Operating junction temperature	T_j		-40 to +150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

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

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=10\text{A}$	0.6	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	2.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5	$^\circ\text{C/W}$

■ Characteristics

