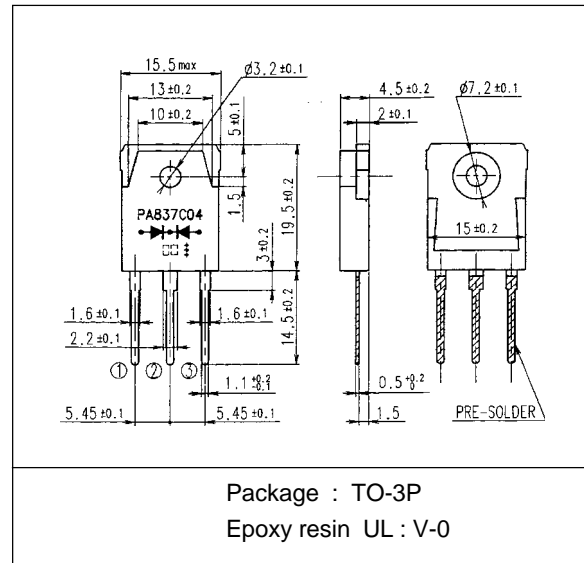


# PA837C04 (40V / 60A)

[200510]

## Schottky-Barrier Diode

### Outline drawings, mm



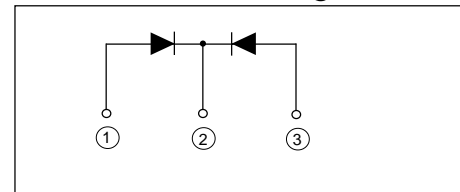
### Features

- Low VF
- Center tap connection

### Applications

- High frequency operation
- DC-DC converters
- AC adapter

### Connection diagram



### Maximum ratings and characteristics

- Maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	$V_{RSM}$	$tw=500ns, duty=1/40$	48	V
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Average output current	$I_o$	Square wave, $duty=1/2$ $T_c=106^{\circ}C$	60 *	A
Non-repetitive surge current	$I_{FSM}$	Sine wave 10ms	500	A
Surge reverse power	$P_{RM}$	$tw=10\mu s, 25^{\circ}C$	1000	W
Operating junction temperature	$T_j$		+150	$^{\circ}C$
Storage temperature	$T_{stg}$		-40 to +150	$^{\circ}C$

\* Out put current of center tap full wave connection

- Electrical characteristics (at  $T_a=25^{\circ}C$  Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage **	$V_F$	$I_F=25A$	0.53	V
Reverse current **	$I_R$	$V_R=V_{RRM}$	25	mA
Reverse avalanche voltage	$V_{av}$	$I_R=10mA$	Min. 50	V
Thermal resistance	$R_{th(j-c)}$	Junction to case	0.75	$^{\circ}C/W$

\*\*Rating per element

- Mechanical characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2	g

■ Characteristics

