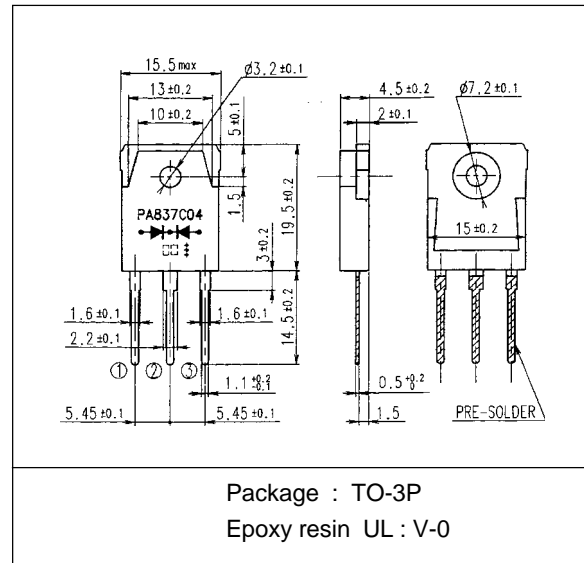


PA837C04 (40V / 60A)

[200510]

Schottky-Barrier Diode

Outline drawings, mm



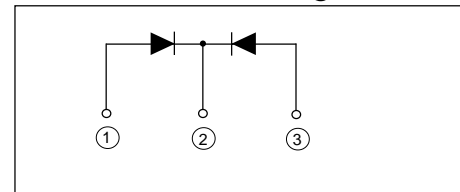
Features

- 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

