

# MA3U749

## Silicon epitaxial planar type (cathode common)

For switching power supply

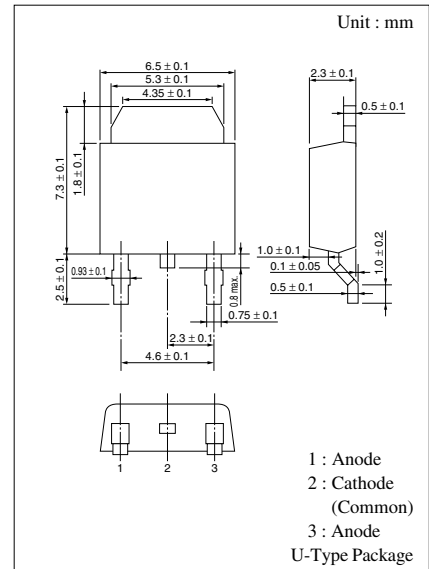
### ■ Features

- Surface mounting type small U-type package
- Low forward rise voltage  $V_F$
- Cathode common dual type

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	40	V
Average forward current	$I_{F(AV)}$	5	mA
Non-repetitive peak forward surge current*	$I_{FSM}$	40	A
Junction temperature	$T_j$	-40 to +125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

Note) \* : Half sine-wave; 10 ms/cycle



### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 40\text{ V}$ , $T_C = 25^\circ\text{C}$			1	mA
Forward voltage (DC)	$V_F$	$I_F = 2.5\text{ A}$ , $T_C = 25^\circ\text{C}$			0.55	V
Thermal resistance*	$R_{th(j-c)}$	Between junction and case			12.5	$^\circ\text{C/W}$

Note) 1. Rated input/output frequency: 1 000 MHz

2. \*:  $T_C = 25^\circ\text{C}$

