MA3U749

Silicon epitaxial planar type (cathode common)

For switching mode power supply

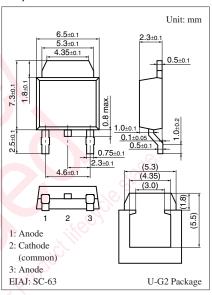
■ Features

- Low forward voltage V_F
- Cathode-common dual type

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}	40	V
Forward current (Average)	I _{F(AV)}	5	A
Non-repetitive peak forward surge current *	I _{FSM}	40	A
Junction temperature	T _j	-40 to +125	°C
Storage temperature	T_{stg}	-40 to +125	°C

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



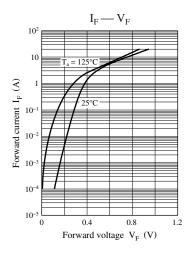
■ Electrical Characteristics T_a = 25°C ± 3°C

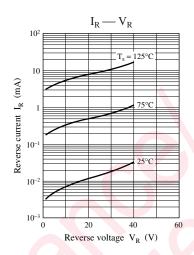
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 2.5 \text{ A}, T_C = 25^{\circ}\text{C}$	150		0.55	V
Reverse current	I_R	$V_R = 40 \text{ V}, T_C = 25^{\circ}\text{C}$			1.0	mA
Thermal resistace (j-c) *	R _{th(j-c)}	"10 _M , 8'U,			12.5	°C/W

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

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





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