

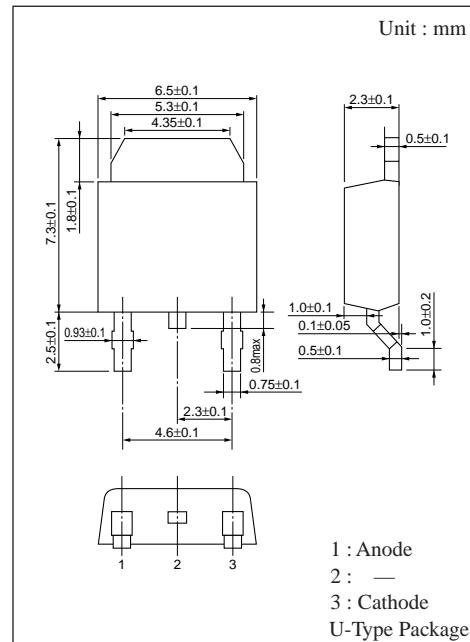
MA3U690

Silicon planer type

For high-frequency rectification

■ Features

- Small U-type package and surface mounting
- Low-loss type with fast reverse recovery time t_{rr}
- Single type



■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}	200	V
Non-repetitive peak reverse voltage	V _{RSM}	200	V
Average forward current	I _{F(AV)} ^{*1}	5	A
Non-repetitive peak forward surge current	I _{FSM} ^{*2}	40	A
Junction temperature	T _j	- 40 to +150	°C
Storage temperature	T _{stg}	- 40 to +150	°C

^{*1} T_C= 25°C

^{*2} Sine half wave : 10ms/cycle

■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Repetitive peak reverse current	I _{RRM1}	V _{RRM} = 200V, T _C = 25°C			20	µA
	I _{RRM2}	V _{RRM} = 200V, T _j =150°C			2	mA
Forward voltage (DC)	V _F	I _F = 5A, T _C = 25°C			0.98	V
Reverse recovery time	t _{rr} ^{*2}	I _F =1A, I _R =1A			45	ns
Thermal resistance	R _{th(j-c)} ^{*1}	Flat direct current between junction and case			12.5	°C/W

Note 1. Rated input/output frequency : 200MHz

2. ^{*1} : T_C= 25°C

3. ^{*2} : t_{rr} measuring circuit

