

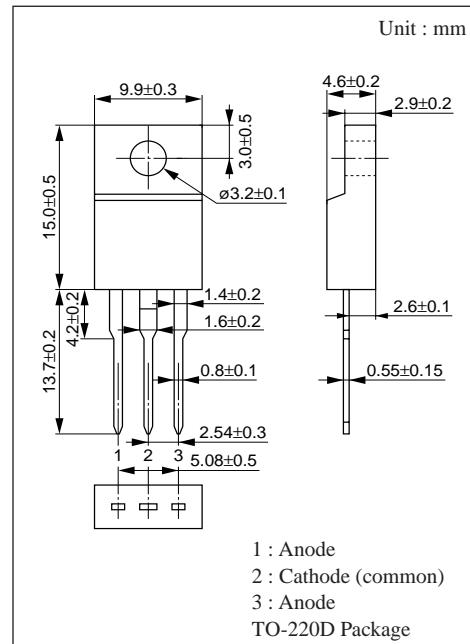
MA10799

Silicon epitaxial planer type (cathode common)

For switching power supply

■ Features

- TO-220D package
- $I_{F(AV)}=10A$ rectification possible
- Cathode common dual type
- Low V_F (forward voltage) type : $V_F < 0.47V$ (at $I_F= 5A$)



■ Absolute Maximum Ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Average forward current	$I_{F(AV)}$	10	V
Non-repetitive peak forward surge current	I_{FSM}^*	120	A
Junction temperature	T_j	-40 to +125	°C
Storage temperature	T_{stg}	-40 to +125	°C

* Sine half wave : 10ms/cycle

■ Electrical Characteristics ($T_c = 25^\circ C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 30V$			3	mA
Forward voltage (DC)	V_F	$I_F = 5A$			0.47	V
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case			3	°C/W

❖ Rated input/output frequency : 150MHz

