

MA7D50, MA7D50A

Silicon epitaxial planer type (cathode common)

For switching power supply

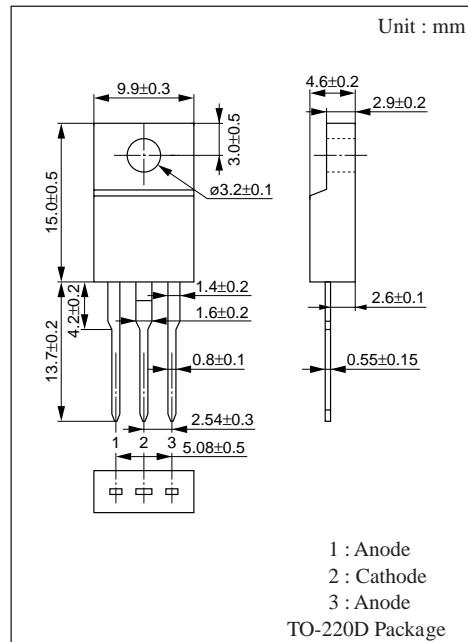
■ Features

- Low forward voltage V_F
- TO-220D (full-pack package) with high dielectric strength > 5.0kV
- Lead end to be V cut for easy mounting

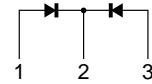
■ Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
MA7D50A	MA7D50A	45	
Average forward current	$I_{F(AV)}$	10	A
Non-repetitive peak forward surge current	I_{FSM}^*	120	A
Junction temperature	T_J	-40 to +125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

* Sine half wave : 10ms/cycle



■ Internal Connection



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

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 40\text{V}, T_C = 25^\circ\text{C}$			3	mA
MA7D50A	MA7D50A	$V_R = 45\text{V}, T_C = 25^\circ\text{C}$			3	
Forward voltage (DC)	V_F	$I_F = 5\text{A}, T_C = 25^\circ\text{C}$			0.55	V
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case			3	$^\circ\text{C/W}$

◆ Rated input/output frequency : 150MHz

