

MA752, MA752A

Silicon epitaxial planer type (cathode common)

For switching power supply

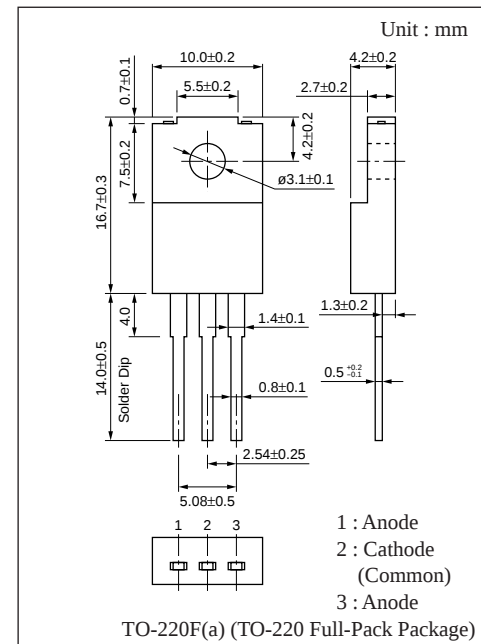
■ Features

- Forward current (average) $I_{F(AV)}$: 20A type
- Sealed in TO-220F full-pack package, with high reliability
- Cathode common dual type
- Low forward voltage V_F

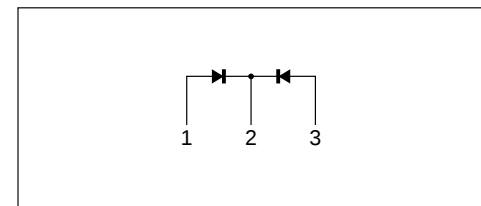
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	MA752	40	V
	MA752A	45	
Reverse voltage (DC)	MA752	40	V
	MA752A	45	
Average forward current	$I_{F(AV)}$	20	A
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



■ Internal Connection



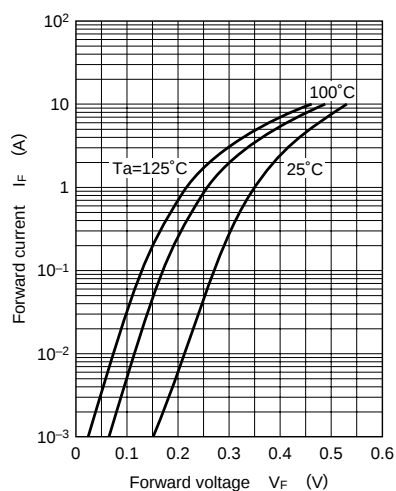
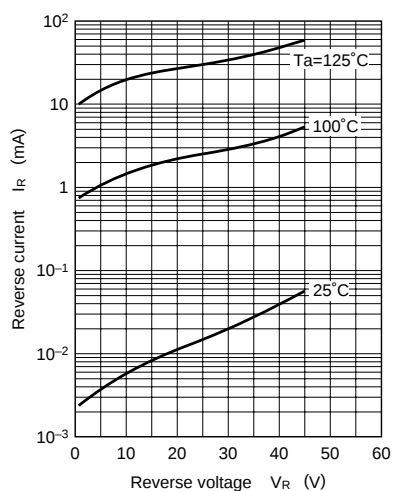
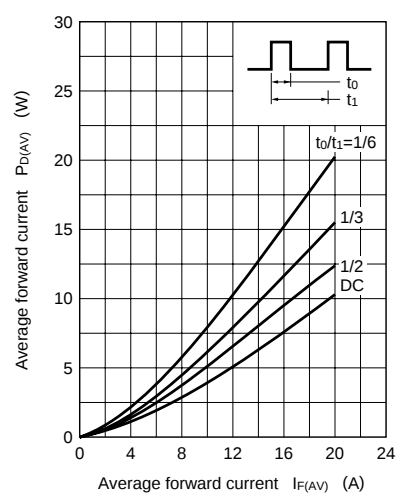
■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 40V$			5	mA
		$V_R = 45V$			5	
Forward voltage (DC)	V_F	$I_F = 10A$			0.55	V
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case			3	°C/W

❖ Rated input/output frequency : 100MHz

■ Marking

Part Number	MA752	MA752A
Symbol	MA752	MA752A

$I_F - V_F$  $I_R - V_R$  $P_{D(AV)} - I_{F(AV)}$  $I_{F(AV)} - T_C$ 