MA3D798 (MA10798)

Silicon epitaxial planar type (cathode common)

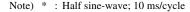
For switching power supply

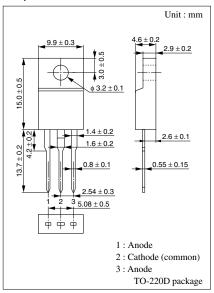
■ Features

- TO-220D package
- Allowing to rectify under $(I_{F(AV)} = 20 \text{ A})$ condition
- Cathode common dual type
- Low V_F (forward voltage) type: $V_F < 0.47 \text{ V}$ (at $I_F = 10 \text{ A}$)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Repetitive peak reverse voltage	V_{RRM}	30	V	
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	





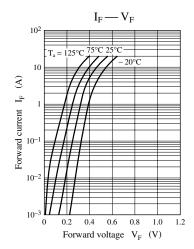
■ Electrical Characteristics $T_a = 25$ °C

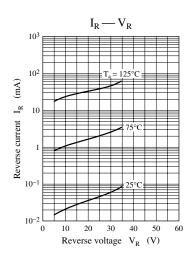
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			5	mA
Forward voltage (DC)	V _F	$I_F = 10 \text{ A}$			0.47	V
High voltage rectification	R _{th(j-c)}	Direct current (between junction and case)			3	°C/W

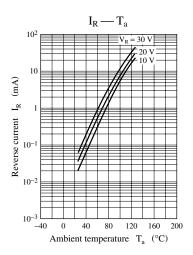
Note) Rated input/output frequency: 150 MHz

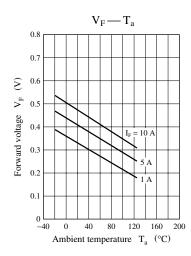
Note) The part number in the parenthesis shows conventional part number.

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