MA3D798 (MA10798)

Silicon epitaxial planar type (cathode common)

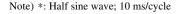
For switching mode power supply

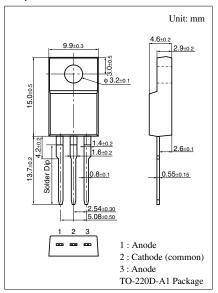
■ Features

- $I_{F(AV)} = 20$ A rectification is possible
- Cathode-common dual type
- Low forward voltage: $V_F < 0.47 \text{ V}$ (at $I_F = 10 \text{ A}$)
- TO-220D-A1 package

■ 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

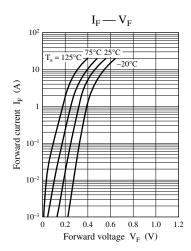


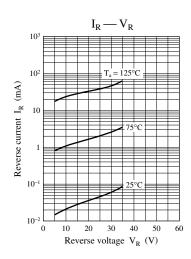


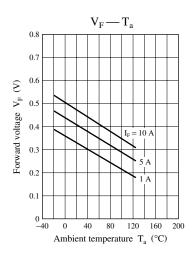
■ Electrical Characteristics $T_a = 25$ °C

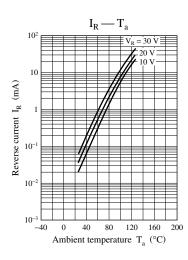
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			5	mA
Forward voltage (DC)	V_F	$I_F = 10 A$			0.47	V
High voltage rectification	R _{th(j-c)}	Smoothed current (between junction and case)			3	°C/W

Note) Rated input/output frequency: 150 MHz









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