

# MA3D799 (MA10799)

Silicon epitaxial planar type (cathode common)

For switching mode power supply

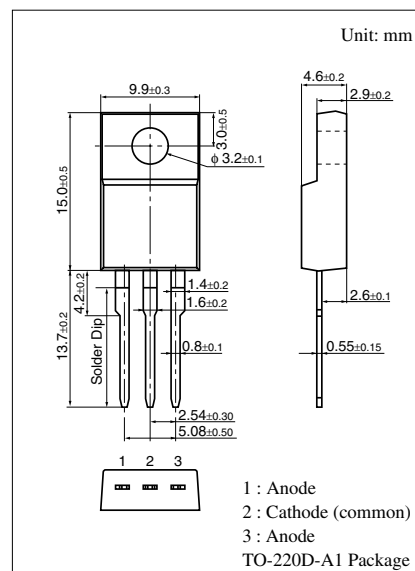
## ■ Features

- $I_{F(AV)} = 10$  A rectification is possible
- Cathode-common dual type
- Low forward voltage:  $V_F < 0.47$  V (at  $I_F = 5$  A)
- TO-220D-A1 package

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

Parameter	Symbol	Rating	Unit
Repetitive peak reverse-voltage	$V_{RRM}$	30	V
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	$^\circ\text{C}$

Note) \*: Half sine wave; 10 ms/cycle

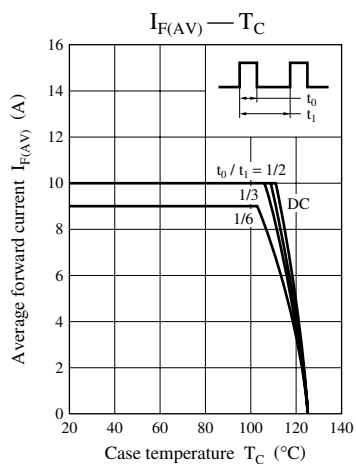
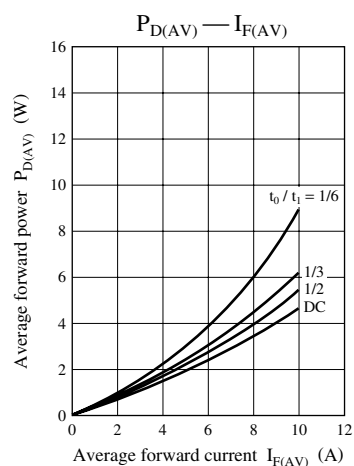
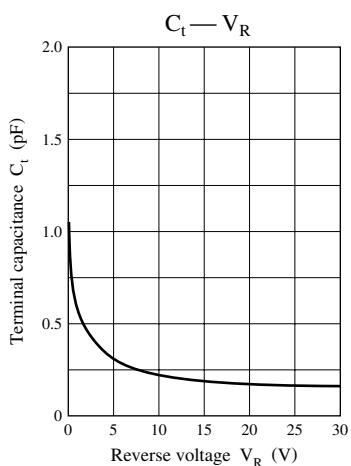
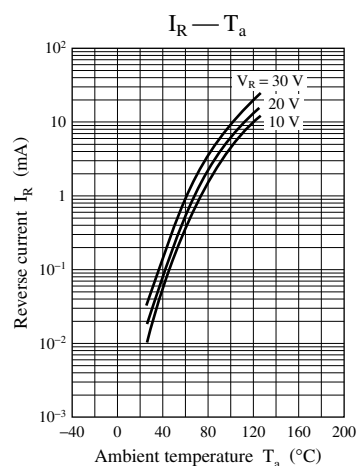
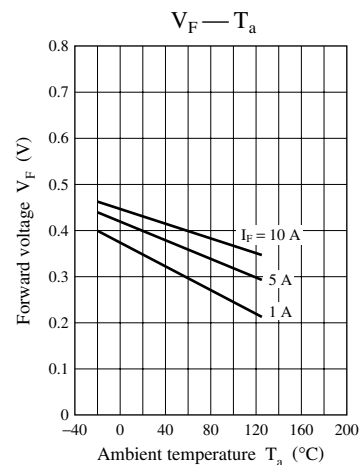
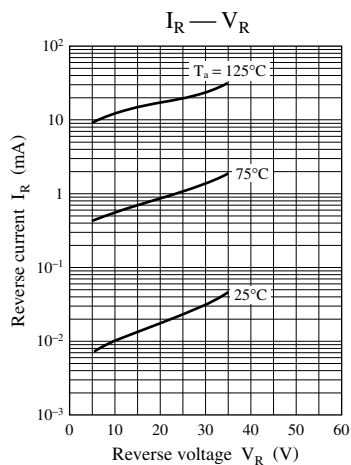
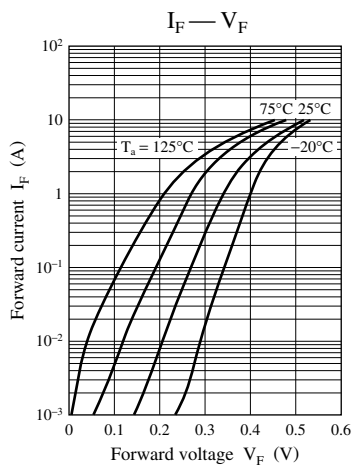


## ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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

Note) Rated input/output frequency: 150 MHz

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



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