# **MA3D755** (MA7D55)

# Silicon epitaxial planar type (cathode common)

For switching mode power supply

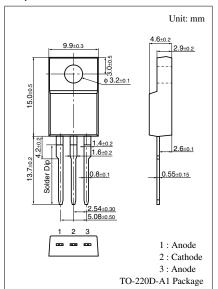
#### ■ Features

- Low forward voltage V<sub>F</sub>
- High dielectric breakdown voltage: > 5 kV
- Easy-to-mount, due to its V cut lead end
- TO-220D-A1 package

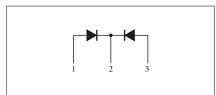
## ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Repetitive peak reverse-voltage	$V_{RRM}$	60	V
Average forward current	I <sub>F(AV)</sub>	5	A
Non-repetitive peak forward- surge-current *	$I_{FSM}$	90	A
Junction temperature	T <sub>j</sub>	-40 to +125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

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



#### Internal Connection



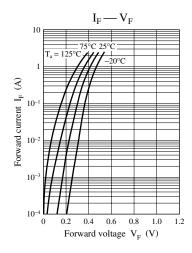
### ■ Electrical Characteristics $T_a = 25$ °C

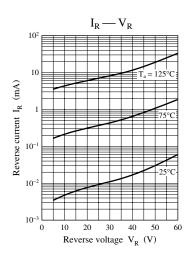
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 60 \text{ V}$			1	mA
Forward voltage (DC)	$V_F$	$I_F = 2.5 \text{ A}$			0.58	V
High voltage rectification	R <sub>th(j-c)</sub>	Smoothed current (between junction and case)			3	°C/W

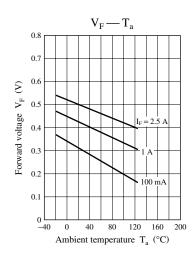
Note) Rated input/output frequency: 200 MHz

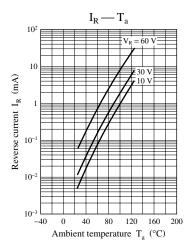
Note) The part number in the parenthesis shows conventional part number.

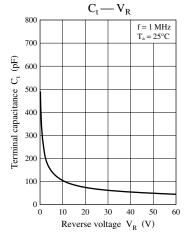
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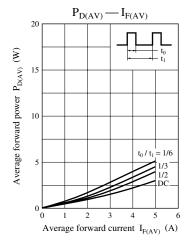


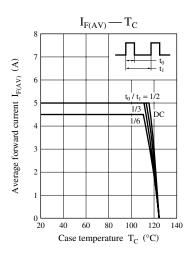












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