MA7D68

Silicon epitaxial planer type (cathode common)

For switching power supply

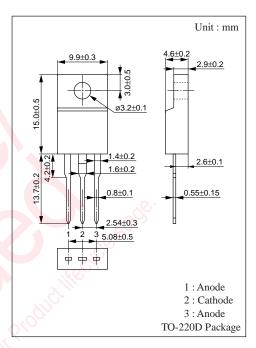
■ Features

- ullet Low forward voltage V_F
- ullet High reverse voltage V_{RRM} : 150V type
- TO-220D (full-pack package) with high dielectric strength > 5.0kV
- Lead end to be V cut for easy mounting

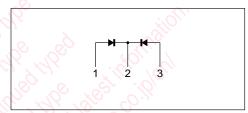
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit	
Repetitive peak reverse voltage	V _{RRM}	150	V	
Average forward current	I _{F(AV)}	5	A	
Non-repetitive peak forward surge current	I _{FSM} *	70	A	
Junction temperature	Tj	- 40 to +125	°C	
Storage temperature	T _{stg}	- 40 to +125	°C ,	
Operating ambient temperature	Topr	-25 to + 70	°C	

^{*} Sine half wave : 10ms/cycle



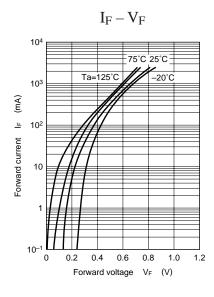
■ Internal Connection

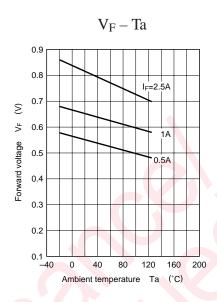


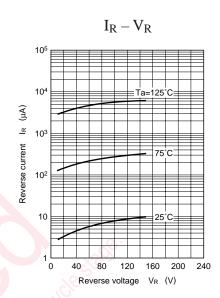
■ Electrical Characteristics (Ta= 25°C)

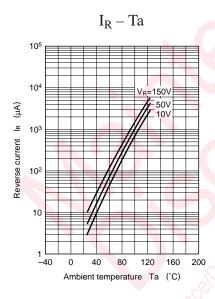
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 150V, T_C = 25^{\circ}C$	01.,		1	mA
Forward voltage (DC)	V_{F}	$I_F = 2.5 \text{V}, T_C = 25^{\circ} \text{C}$			0.85	V
Thermal resistance	R _{th(j-c)}	Flat direct current between junction and case			3	°C/W

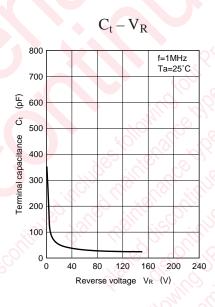
^{*} Rated input/output frequency: 100MHz

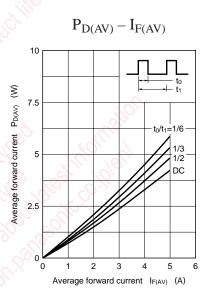


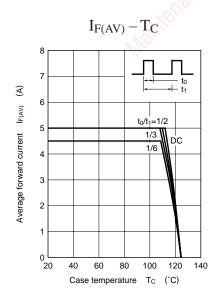












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