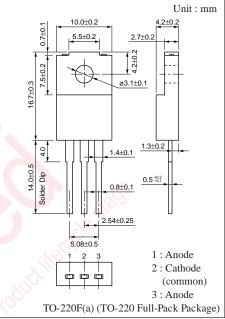
MA654

Silicon planer type (cathode common)

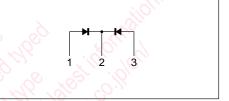
For switching

- Features
- High reverse voltage V_R
- Low forward voltage V_F
- Fast reverse recovery time t_{rr}



10-220F(a) (10-2.

Internal Connection



■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit	
Repetitive peak reverse voltage	V _{RRM}	300	V	
Non-repetitive peak reverse voltage	V _{RSM}	300	V	
Average forward current	I _{F(AV)}	10	A	
Non-repetitive peak forward surge current	I _{FSM} *	60	А	
Junction temperature	Tj	- 40 to +150	°C	
Storage temperature	T _{stg}	-40 to $+150$	°C	
			XV) (

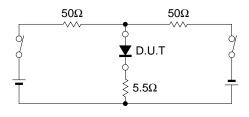
* Sine half wave : 10ms/cycle

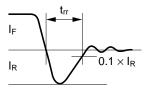
■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Repetitive peak reverse current	I _{RRM1}	V_{RRM} = 300V, T_{C} = 25°C	06,.,		100	μΑ
	V _{RRM} = 300V, T _j =150°C			6	mA	
Forward voltage (DC)	$V_{\rm F}$	$I_{F}= 5A, T_{C}= 25^{\circ}C$			1	V
Reverse recovery time	t _{rr} *	I _F =1A, I _R =1A			100	ns
Thormal magistance	R _{th(j-c)}				3	°C/W
Thermal resistance $R_{th(j-a)}$	Flat direct current between junction and case			63	°C/W	

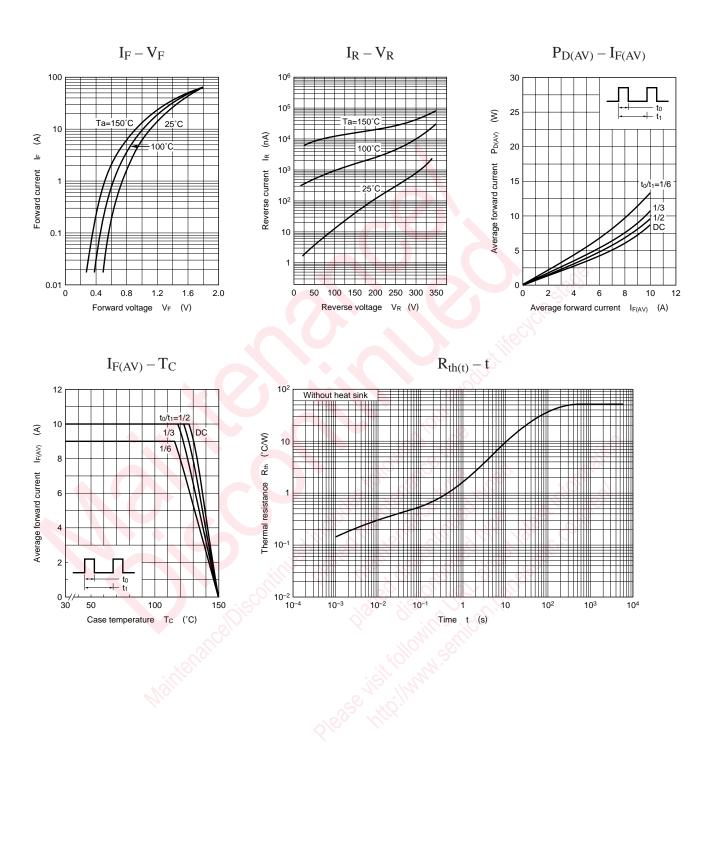
Note 1. Rated input/output frequency : 10MHz

2. * t_{rr} measuring circuit





Panasonic



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