

MA10798

Silicon epitaxial planer type (cathode common)

For switching power supply

■ Features

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

■ Absolute Maximum Ratings ($T_a=25^\circ C$)

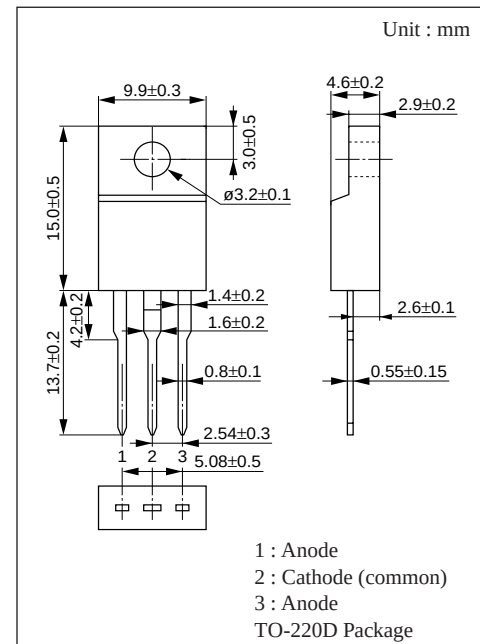
Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Average forward current	$I_{F(AV)}$	20	A
Non-repetitive peak forward surge current	I_{FSM}^*	120	A
Junction temperature	T_j	- 40 to + 125	$^\circ C$
Storage temperature	T_{stg}	- 40 to + 125	$^\circ C$

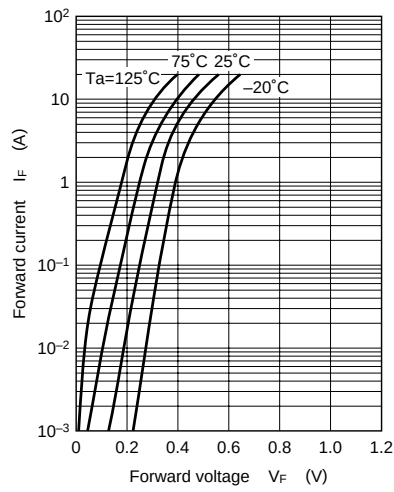
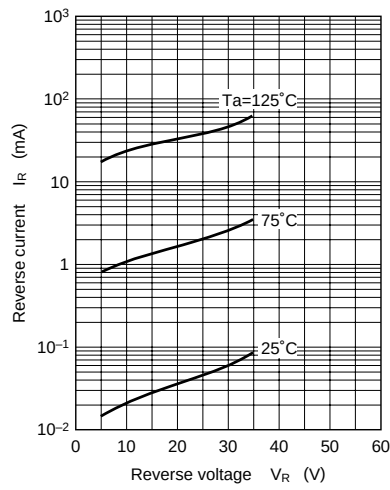
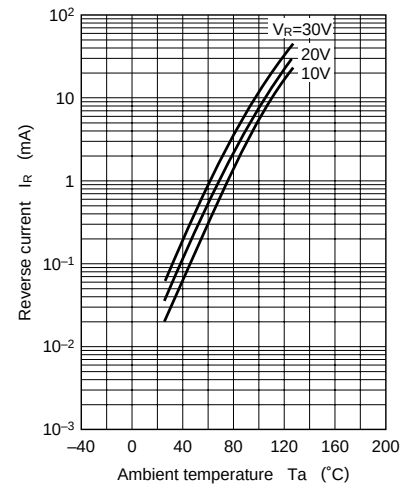
* Sine half wave : 10ms/cycle

■ Electrical Characteristics ($T_c=25^\circ C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R=30V$			5	mA
Forward voltage (DC)	V_F	$I_F=10A$			0.47	V
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case			3	$^\circ C/W$

❖ Rated input/output frequency : 150MHz



$I_F - V_F$  $I_R - V_R$  $I_R - T_a$  $V_F - T_a$ 