

FT2000AA ~FT2000KG

PRV : 50 ~ 400 Volts
Io : 20 Ampere

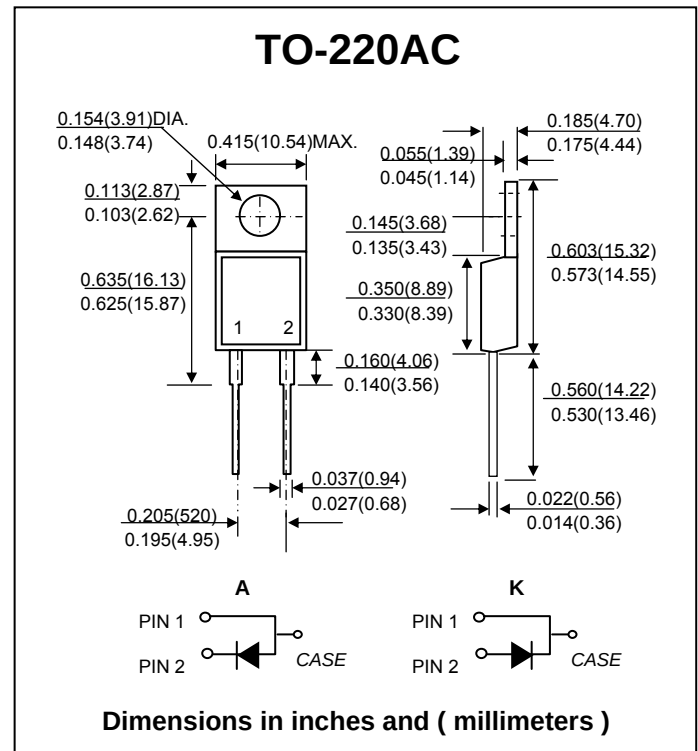
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : Epoxy, Molded
 - * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
 - * Mounting Position: Any
 - * Weight : 2.24 grams (Approximately)
 - * Polarity: As marked , K
- K (Standard) is p/n FT2000KA, FT2000KB, ..., KG
A (Reverse) is p/n FT2000AA, FT2000AB, ..., AG

FAST RECOVERY RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	FT2000KA	FT2000KB	FT2000KD	FT2000KG	UNIT
		FT2000AA	FT2000AB	FT2000AD	FT2000AG	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	V
Maximum Surge Peak Reverse Voltage	V _{RSM}	50	100	200	400	V
Maximum Average Forward Current, R-load, T _C = 100 °C	I _{F(AV)}	20				A
Maximum Peak Rectified Forward Current, f > 15 Hz (Note 1)	I _{FRM}	80				A
Maximum Peak Forward Surge Current, 50 Hz half sine wave 60 Hz half sine wave	I _{FSM}	375				A
		390				
Maximum Forward Voltage I _F = 5 A, T _J = 25°C	V _F	0.84				V
I _F = 20 A, T _J = 25°C		0.96				
Maximum Reverse Current, V _R = V _{RRM} , T _J = 25 °C	I _R	25				μA
Maximum Reverse Recovery Time, (I _F = 0.5A, I _R = 1A ; I _{rr} = 0.25 A)	T _{rr}	200				ns
Maximum Thermal Resistance, Junction to Case	R _{θJC}	1.5				K / W
Junction Temperature Range, at reduced reverse voltage, V _R ≤ 80% V _{RRM} V _R ≤ 20% V _{RRM} in DC forward mode	T _J	- 50 to + 150				°C
		- 50 to + 200				
		- 50 to + 200				
Storage Temperature Range	T _{STG}	- 50 to + 175				°C

Note : (1) Max. temperature of the case $T_C = 100\text{ }^{\circ}\text{C}$.

RATING AND CHARACTERISTIC CURVES (FT2000AA ~FT2000KG)

FIG.1 - RATED FORWARD CURRENT VS. CASE TEMPERATURE

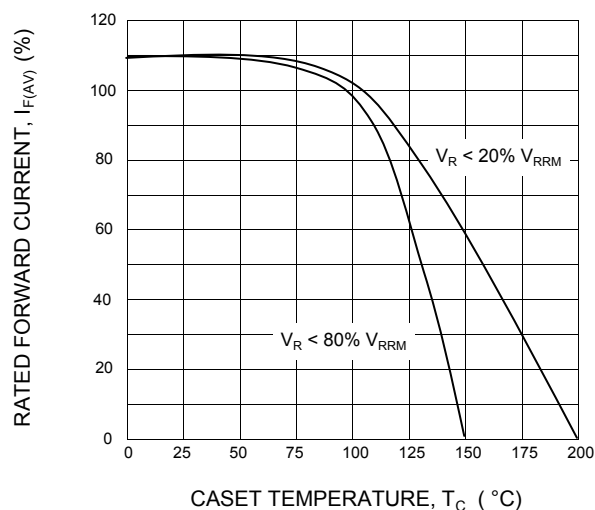


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

