

FT2000AA ~FT2000KG

PRV : 50 ~ 400 Volts
Io : 20 Ampere

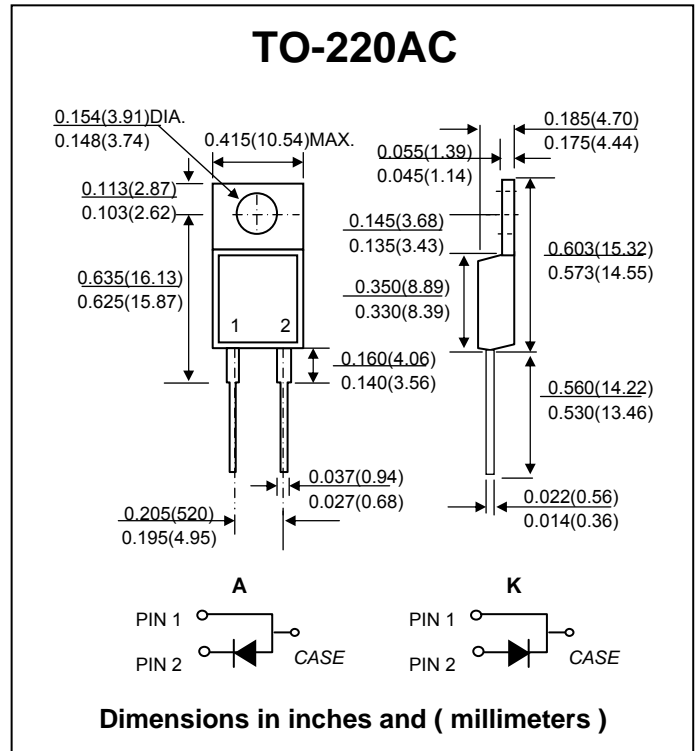
FEATURES :

- * 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, $T_C = 100\text{ }^\circ\text{C}$	$I_{F(AV)}$	20				A
Maximum Peak Rectified Forward Current, $f > 15\text{ Hz}$ (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 $I_F = 5\text{ A}, T_j = 25\text{ }^\circ\text{C}$ $I_F = 20\text{ A}, T_j = 25\text{ }^\circ\text{C}$	V_F	0.84				V
		0.96				
Maximum Reverse Current, $V_R = V_{RRM}, T_j = 25\text{ }^\circ\text{C}$	I_R	25				μA
Maximum Reverse Recovery Time, ($I_F = 0.5\text{ A}, I_R = 1\text{ A}; I_{rr} = 0.25\text{ A}$)	T_{rr}	200				ns
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	1.5				K / W
Junction Temperature Range, at reduced reverse voltage, $V_R \leq 80\% V_{RRM}$ $V_R \leq 20\% V_{RRM}$ in DC forward mode	T_J	- 50 to + 150				$^\circ\text{C}$
		- 50 to + 200				
		- 50 to + 200				
Storage Temperature Range	T_{STG}	- 50 to + 175				$^\circ\text{C}$

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

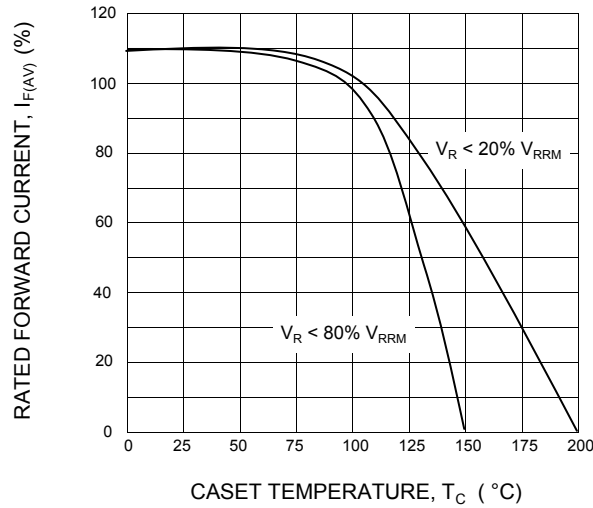


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

