

Super Fast Rectifiers

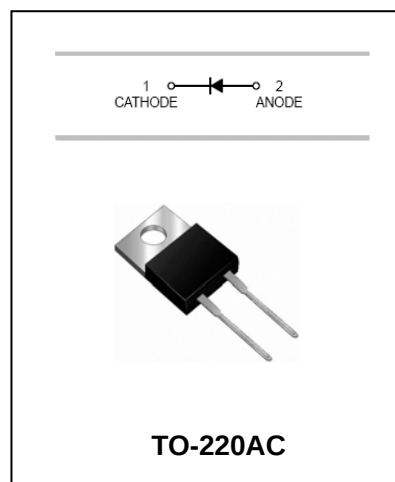
T10PF05---T10PF10

FEATURES

- Low leakage.
- Low forward voltage drop.
- Super long operating life.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.



Lead-free



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	T10 PF05	T10 PF1	T10 PF2	T10 PF4	T10 PF6	T10 PF8	T10 PF10	Unit
V _{RRM}	Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
V _{DC}	DC Blocking Voltage	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Forward Rectified Current @T _A =25°C	10							A
I _{FSM}	Peak Forward Surge Current 8.3ms Single Half-sine-wave Superimposed on Rsted Load	400							A
R _{θJA}	Thermal Resistance to ambient	20							K/W
R _{θJC}	Thermal Resistance to case	2							K/W
T _j	Operating Junction Temperature Range	-55 to +150							°C
	In DC Forward Mode ≤1h (Note 1)	+200							
T _{stg}	Storage Junction Temperature Range	-55 to +150							°C

Note: 1.Meets the requirements of IEC 61215 Ed.2 bypass diode thermal test.



Super Fast Rectifiers

T10PF05---T10PF10

ELECTRICAL CHARACTERISTICS@ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	T10 PF05	T10 PF1	T10 PF2	T10 PF4	T10 PF6	T10 PF8	T10 PF10	UNIT
Reverse Current	I _R	T _A =25℃	10							μ A
		T _A =100℃	100							
		75℃,50% V _{RRM} ,typ.	5							
Forward Voltage	V _F	I _F =5A T _A =25℃(max.)	1.2				1.3			V
		I _F =5A T _A =125℃(typ.)	0.9				0.95			
Reverse Recovery Time	t _{rr}	I _F =0.5A I _R =1A I _{rr} =0.25A	150				250	500		ns

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AC

The image shows a technical drawing of a TO-220AC package. The front view (left) shows a rectangular body with a circular mounting hole. Dimensions include: A (body width), B (body height), E (hole offset), F (lead length), G (lead width), K (lead thickness), L (lead diameter), and N (hole diameter). The side view (right) shows the package profile with dimensions: C (total height), D (top flange width), I (body height), M (lead height), and J (lead diameter).

TO-220AC		
Dim	Min	Max
A	9.80	10.30
B	8.70	9.10
C	4.57 Typical	
D	1.27 Typical	
E	2.64	2.84
F	13.14	13.74
G	4.98	5.18
H	28.03	28.83
J	0.38 Typical	
K	1.22	1.32
L	0.71	0.91
M	2.50 Typical	
N	3.86 Typical	
All Dimensions in mm		