

FEATURES

- Glass passivation chip junction.
- Fast switching for high efficiency
- High reliability
- Low forward voltage ,high current capacity Mechanical Data
- Case:TO-220AB molded plastic, Lead-free package
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Pure tin plate, lead free, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: as marked

Product Description

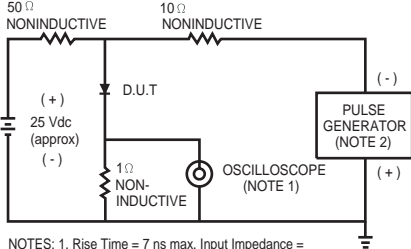
Designer for used the switching power supply. Inverter, free wheeling, and polarity protection application.

产品特性: F16C20C、F16C20A为高效超快快恢复整流二极管: 16A, 200V
 代替型号: MUR1620系列; ER1600系列...
 应用领域: 开关电源、逆变器、免费续流和极性保护应用
 应用范围: PC电源、开关电源、电动车充、电动工具、汽车功放等产品; 小功率电焊机广泛应用...

Characteristics	Symbol	Typical data	Final Spec	Units
Peak Repetitive Reverse Voltage	V_{RRM}	250~350	230	V
Working Peak Reverse Voltage	V_{RWM}			
DC Blocking Voltage	V_R			
RMS reverse Voltage	$V_{R(RMS)}$	150		
Maximum instantaneous forward voltage ($I_F=8A, T_C=25^\circ C$)	V_F	0.95~1.05	1.1	
Average Rectifier Forward Current Per Leg $T_C=125^\circ C$ Total Device	$I_{F(AV)}$		8 16	A
Peak Repetitivity Forward Current (Rate Vr, Square Wave,20kHz)	I_{FM}		16	
Non-Repetitivity Peak Surge Current Maximum Instantaneous Forward	I_{FSM}		150	
Maximum Instanteous Reverse Current (Rated DC Voltage, $T_C=25^\circ C$) (Rated DC Voltage, $T_C=125^\circ C$)	I_R	≤ 1	5 100	μA
Reverse Recovery Time ($I_F=0.5A, I_R=1, I_{rr}=0.25A$)	T_{rr}	60~80	100	nS
Typical Juntion Capacitance (Reverse Voltage of 4 volts & $f=1MHz$)	C_p		120	pF
Operation and Storage Temp Range	T_J & T_{stg}		-65~+150	$^\circ C$

RATING CHARACTERISTIC CURVES (F16C05PT ~ F16C60PT)

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time = 7 ns max. Input Impedance = 1 megohm, 22 pF.
2. Rise Time = 10 ns max. Source Impedance = 50 ohms.

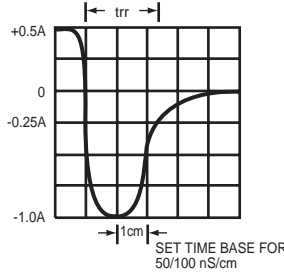


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

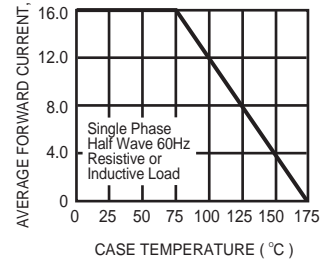


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

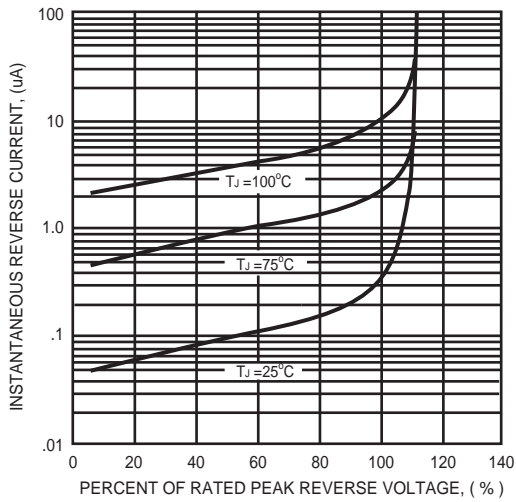


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

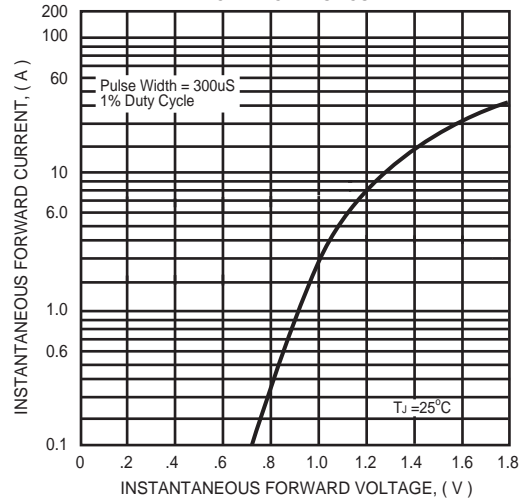


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

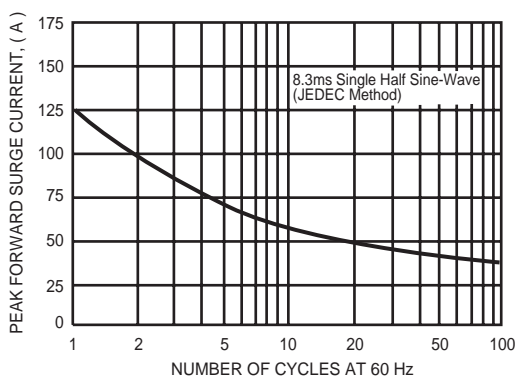
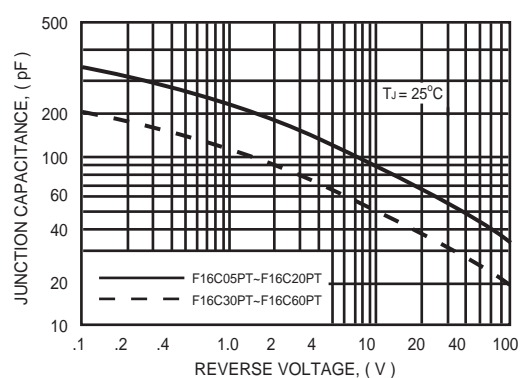
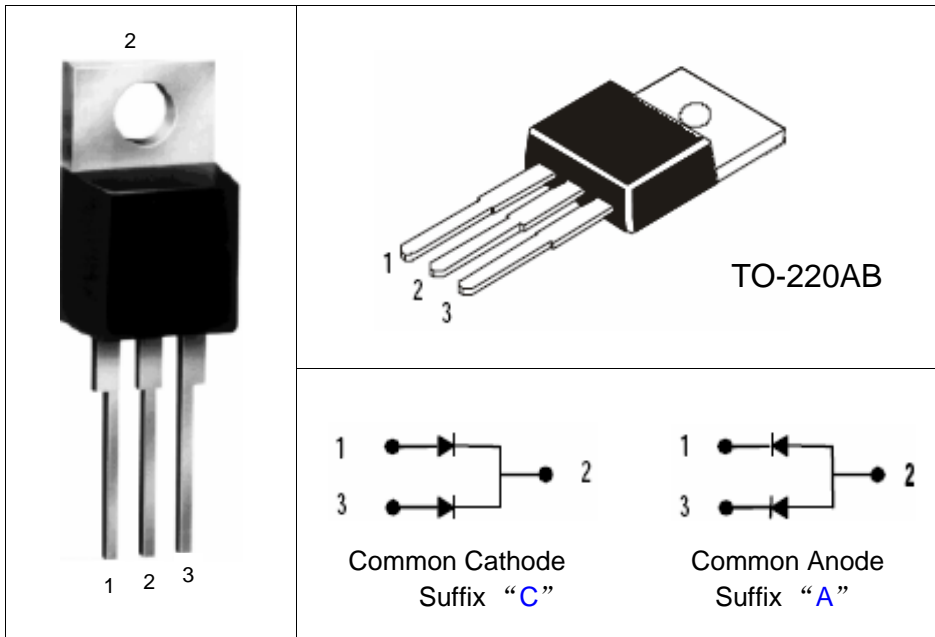


FIG. 6 - TYPICAL JUNCTION CAPACITANCE



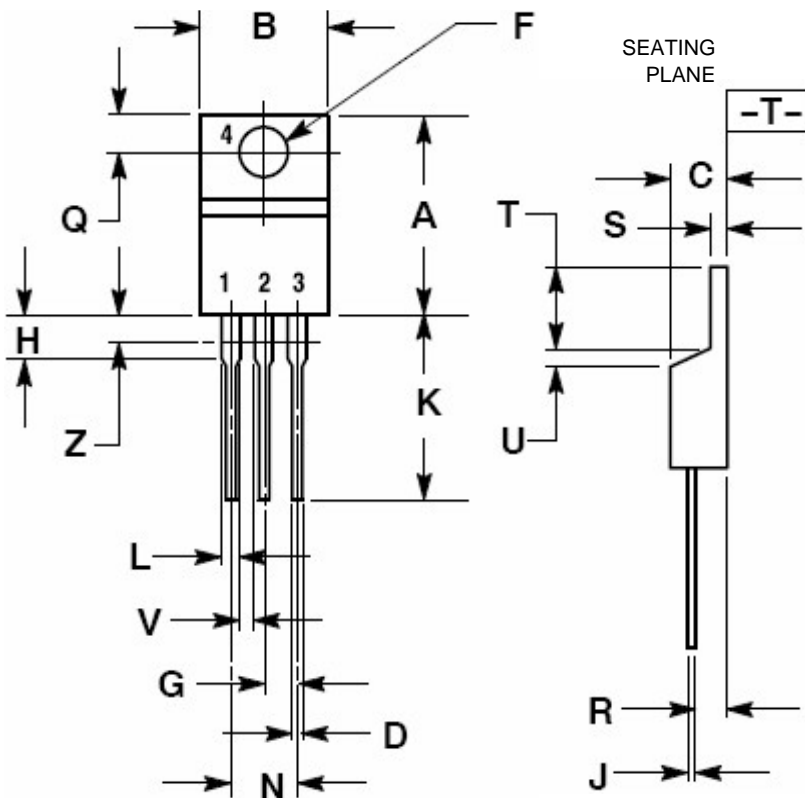


TO-220AB
Lead-free package
无铅环保封装

极性说明:
F16C20**C**: 共阴
F16C20**A**: 共阳

包装规格:
管装、盒装
每管50只
每盒1000只
每箱5000只

MECHANICAL DATA **Package: TO-220AB**
Package Dimensions **Dimensions in millimeters**



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.570	0.620	14.48	15.75
B	0.380	0.405	9.660	10.28
C	0.160	0.190	4.070	4.820
D	0.025	0.035	0.640	0.880
F	0.142	0.161	3.610	4.090
G	0.095	0.105	2.420	2.660
H	0.110	0.155	2.800	3.930
J	0.014	0.025	0.360	0.640
K	0.500	0.562	12.70	14.27
L	0.045	0.060	1.150	1.520
N	0.190	0.210	4.830	5.330
Q	0.100	0.120	2.540	3.040
R	0.080	0.110	2.040	2.790
S	0.045	0.055	1.150	1.390
T	0.235	0.255	5.970	6.470
U	0.000	0.050	0.000	1.270
V	0.045	---	1.150	---
Z	---	0.080	---	2.040



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