

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS	REVERSE VOLTAGE - 100 to 600Volts FORWARD CURRENT - 20.0 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ●Fred chip Planar Construction ●Ultra-Fast Switching,high efficiency ●Low forward voltage drop ●Low Reverse Leakage Current ●High Surge Current Capability ●Plastic Material has UL Flammability Classification 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ●Case: ITO-220AB Type,molded plastic ●Terminals:Pure tin Plated,Lead Free Solderable Per MIL-STD-750,Method 2026 ●Mounting position :Any ●Weight: 1.70 grams(approx) ●polarity:As marked <p>TYPICAL APPLICATIONS</p> <ul style="list-style-type: none"> ●For use in High Frequency Rectifier of Switching Mode Power Supplies,Freewheeling Diode,DC/DC Converters or polarity Protection Application 	<p>ITO-220AB</p> <p>Dimensions in inches and (millimeters)</p>

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MURF2010CT	MURF2020CT	MURF2040CT	MURF2060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	V
Maximum Average Forward Rectified Current @T _A =60 °C	I _{F(AV)}	20				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	150				A
Typical Thermal Resistance ,Junction to Case	R _{θJC}	3.5		2.5		°C/W
Peak Forward Voltage at 20.0A DC	V _F	0.95		1.3	1.5	V
Maximum DC Reverse Current @T _A =25°C at Rated DC Blocking Voltage @T _A =100°C	I _R	5 250				µA
Maximum Reverse Recovery Time(Note1)	T _{RR}	35		50		ns
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150				°C

NOTES:1.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A

2.Measured at 1.0MHZ and applied reverse voltage of 4.0V D.C.

3.The typical data above is for reference only(典型值仅供参考).

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

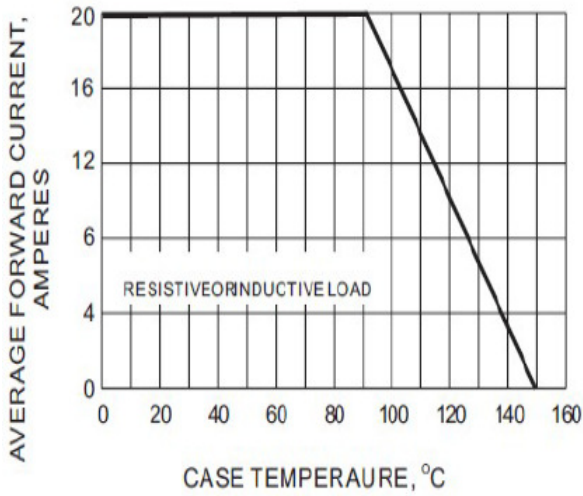


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

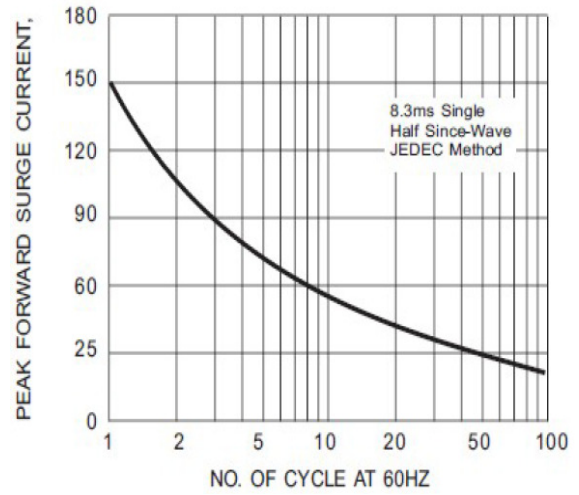


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

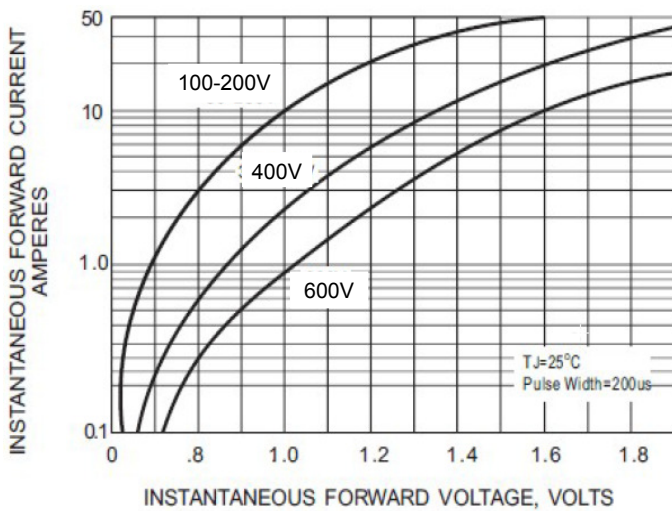


FIG.4-TYPICAL REVERSE CHARACTERISTICS

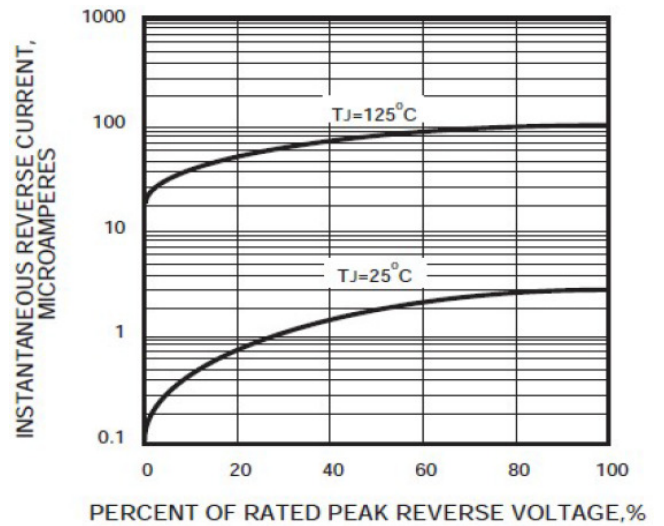
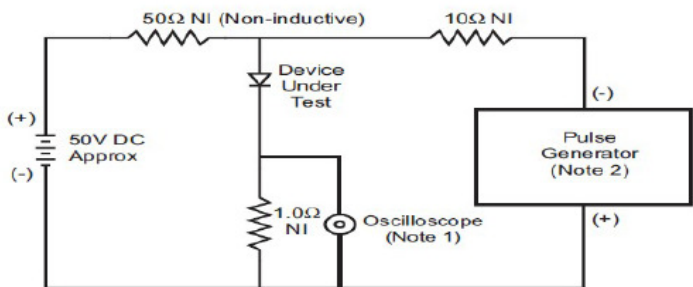


FIG.5-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT



- Notes:
 1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
 2. Rise Time = 10ns max. Input Impedance = 50Ω.

