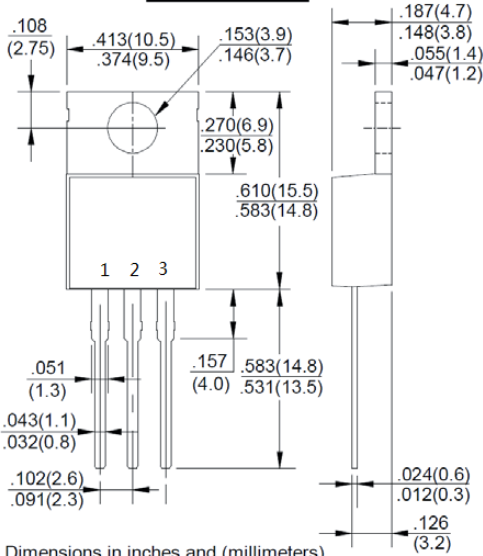
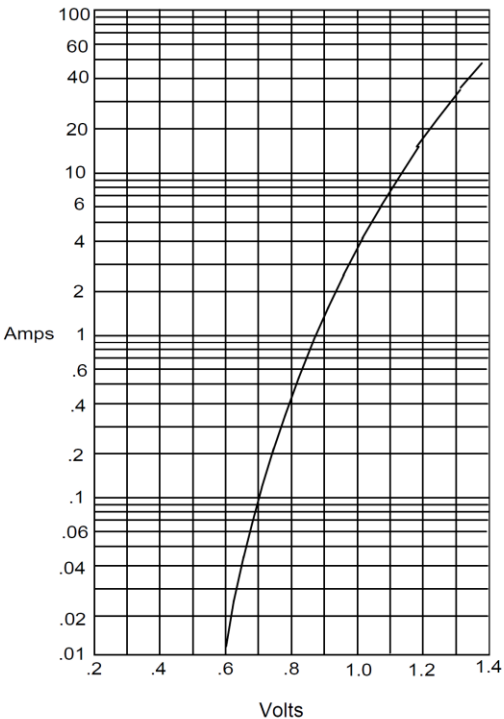


FG1603CT THRU FG1603GA		REVERSE VOLTAGE - 200Volts FORWARD CURRENT - 16.0 Amperes		
<div>FEATURES</div> <ul style="list-style-type: none">• Super fast switching time for high efficiency• Low forward voltage drop High current capability• Low reverse leakage current• Plastic material has UL flammability classification 94V-0 <div>MECHANICAL DATA</div> <ul style="list-style-type: none">• Case: TO-220AB molded plastic• Epoxy: UL94V-0 rate flame retardant• Mounting position :Any• Weight: 2.24 grams• polarity:As marked		<div>TO-220AB</div>  <p>Dimensions in inches and (millimeters)</p> <div><div><div>PIN 1</div><div>PIN 3</div><div>PIN 2</div></div><div>FG1603CT</div></div> <div><div><div>PIN 1</div><div>PIN 3</div><div>PIN 2</div></div><div>CASE FG1603GA</div></div>		
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS				
Rating at 25℃ ambient temperature unless otherwise specified.				
Single phase, half wave, 60Hz, resistive or inductive load.				
For capacitive load, derate current by 20%				
CHARACTERISTICS	SYMBOL	FG1603CT	FG1603GA	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	200	V
Maximum RMS Voltage	VRMS	140	140	V
Maximum DC Blocking Voltage	VDC	200	200	V
Maximum Average Forward Rectified Current @TA =75 ℃	I(AV)	16.0		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	150		A
Peak Forward Voltage at 8..0A DC	VF	1.3		V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	IR	10 100		μA
Maximum Reverse Recovery Time(Note1)	TRR	150		nS
Typical Junction Capacitance (Note2)	CJ	60		pF
Typical Thermal Resistance (Note3)	RθJA	2.5		℃/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150		℃
NOTES:1.Measured with IF=0.5A,IR=1A,IRR=0.25A				
2. Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.				
3.Thermal resistance junction to ambient				

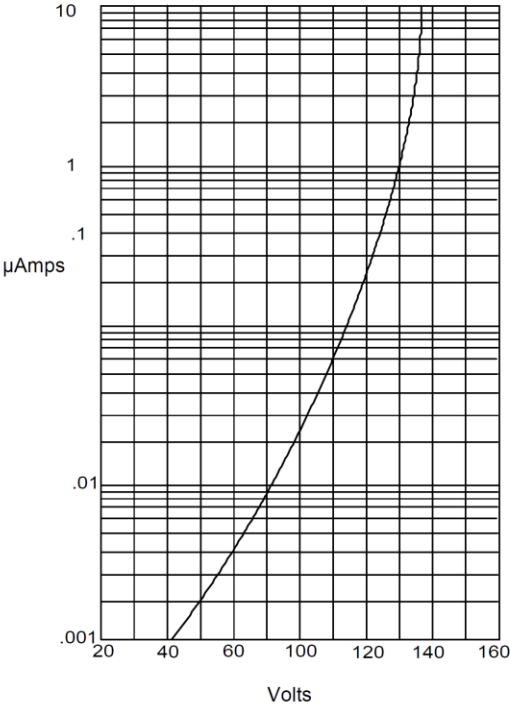
RATING AND CHARACTERCTIC CURVES
FG1603CT thru FG1603GA

Figure 1
Typical Forward Characteristics



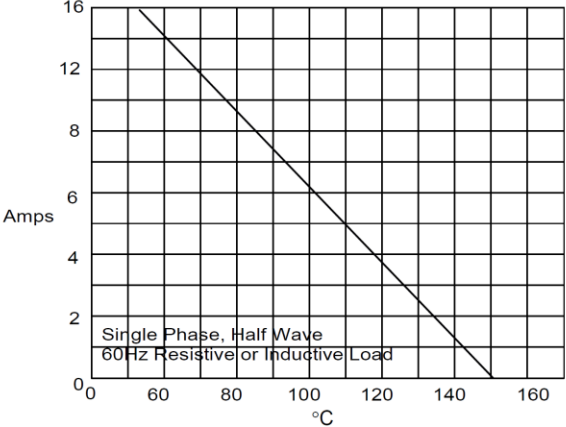
Instantaneous Forward Current - Amperes *VERSUS*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



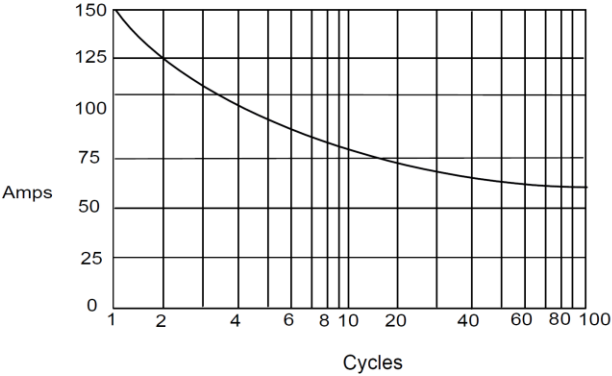
Instantaneous Reverse Leakage Current - MicroAmperes *VERSUS*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Instantaneous Forward Current - Amperes *VERSUS*
Instantaneous Forward Voltage - Volts

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes *VERSUS*
Number Of Cycles At 60Hz - Cycles