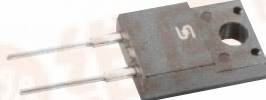
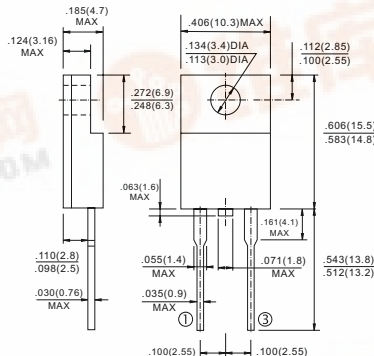


TSC 	SFAF504G Isolation 5.0 AMPS. Glass Passivated Super Fast Rectifiers		
	Voltage Range 200 Volts Current 5.0 Amperes		
Features ✧ Low forward voltage drop ✧ High current capability ✧ High reliability ✧ High surge current capability	ITO-220AC  PIN 1  CASE PIN 2  Case Positive PIN 1  CASE PIN 2  Case Negative Suffix "R" Dimensions in inches and (millimeters)		
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%			
Type Number	SFAF504G	Units	
Maximum Recurrent Peak Reverse Voltage	200	V	
Maximum RMS Voltage	140	V	
Maximum DC Blocking Voltage	200	V	
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _C = 100°C	5.0	A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	125	A	
Maximum Instantaneous Forward Voltage @ 5.0A	0.975	V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	10.0 400	uA uA	
Maximum Reverse Recovery Time (Note 1)	35	nS	
Typical Junction Capacitance (Note 2)	70	pF	
Typical Thermal Resistance R θ JC (Note 3)	5.0	°C/W	
Operating Temperature Range T _J	-65 to +150	°C	
Storage Temperature Range T _{STG}	-65 to +150	°C	

Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
3. Thermal Resistance from Junction to Case Mounted on Heatsink.

RATINGS AND CHARACTERISTIC CURVES (SFAF504G)

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

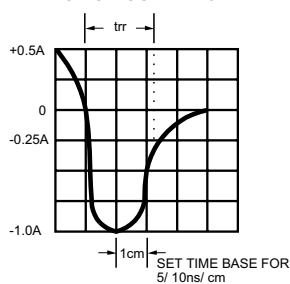
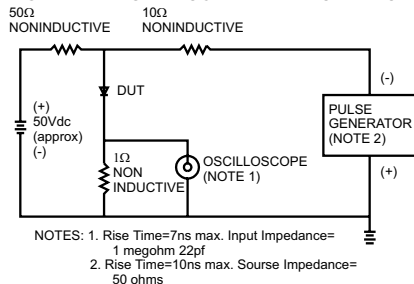


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

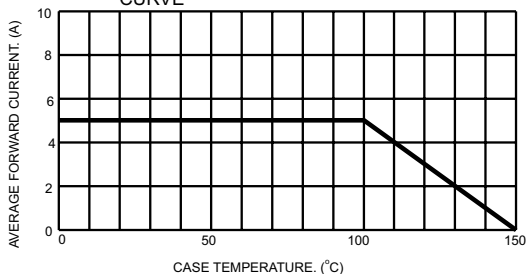


FIG.3- TYPICAL REVERSE CHARACTERISTICS

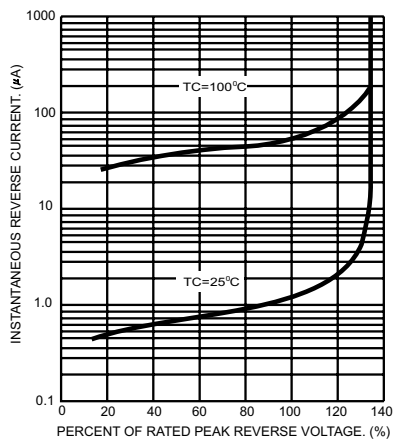


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

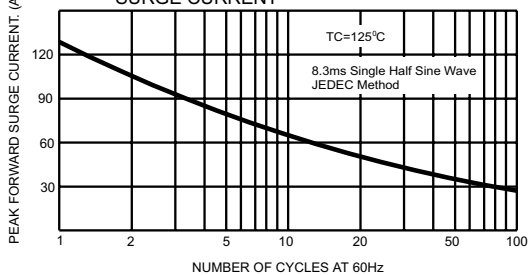


FIG.6- TYPICAL FORWARD CHARACTERISTICS

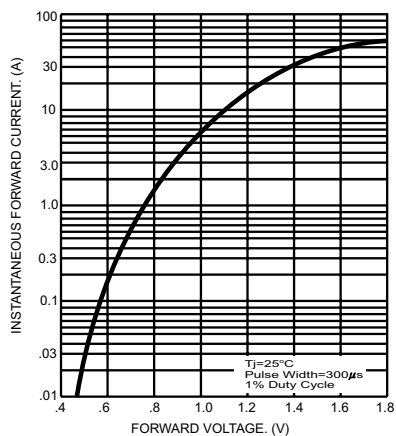


FIG.5- TYPICAL JUNCTION CAPACITANCE

